

Service Manual



Colour Television

TX-32PK1

EURO-4 Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz
Power Consumption:	110W
Stand-by Power Consumption:	1,4W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL I, PAL-525/60 M.NTSC NTSC (AV only)
Receiving Channels:	UHF E21-E69
Intermediate Frequency:	
Video/Audio	
Video	39,5MHz
Audio	33,5MHz
	32,95MHz (NICAM)
Colour	35,07MHz

Terminals:	
AUDIO MONITOR OUT	Audio (RCAx2) 500mV rms 1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ

AV2 IN	Video (21 pin) Audio (21 pin) S-Video IN (21-pin)	1V p-p 75Ω 500mV rms 10kΩ Y: 1V p-p 75Ω C: 0,3V p-p 75Ω
AV2 OUT	Video (21 pin) Audio (21 pin) Selectable output (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV3 IN	S-Video IN (4-pin) Audio (RCAx2) Video (RCAx1)	Y: 1V p-p 75Ω C: 0,3V p-p 75Ω 500mV rms 10kΩ 1V p-p 75Ω

High Voltage:	31,5kV ± 1kV
Picture Tube:	W76LPX955X06 76cm

Audio Output:	2 x 20W (Music Power) 8Ω Impedance
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Headphones:	8Ω Impedance 3,5mm
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Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries Video Cabinet VS-PK1/2
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Dimensions:	
Height:	558mm
Width:	812mm
Depth:	572mm

Net weight:	58kg
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Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical guide.

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 32,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

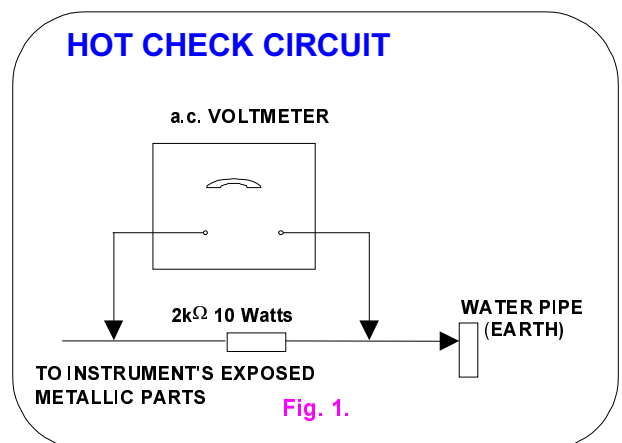
1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

X-RADIATION WARNING



1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 32,5kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate. 31,5kV \pm 1kV.
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 10 screws as shown in **Fig.2.**



Fig.2.

LOCATION OF CONTROLS

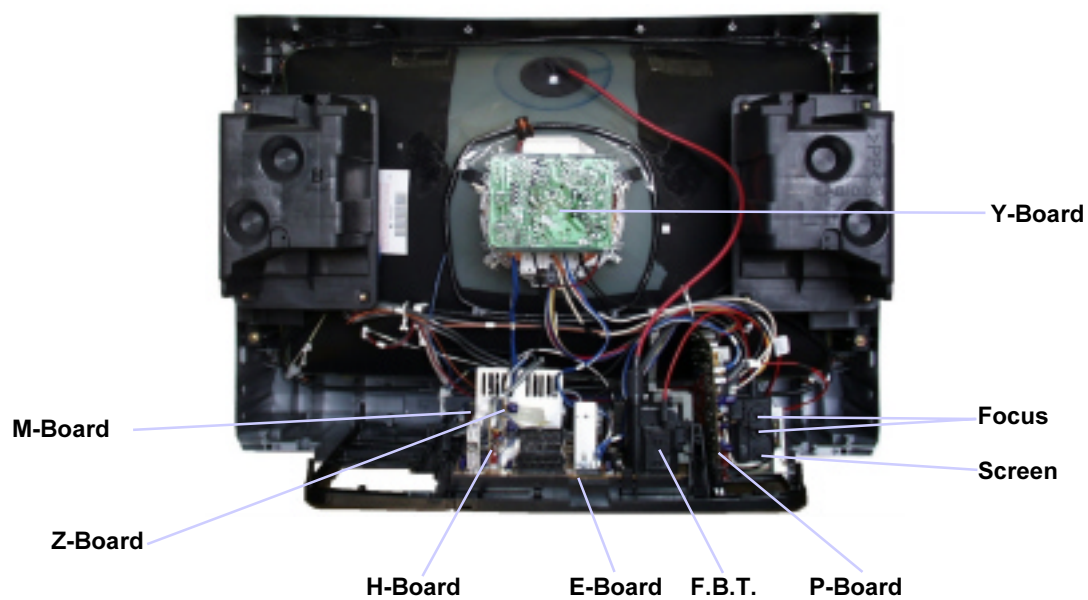
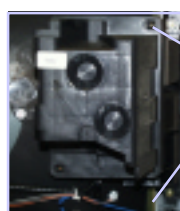
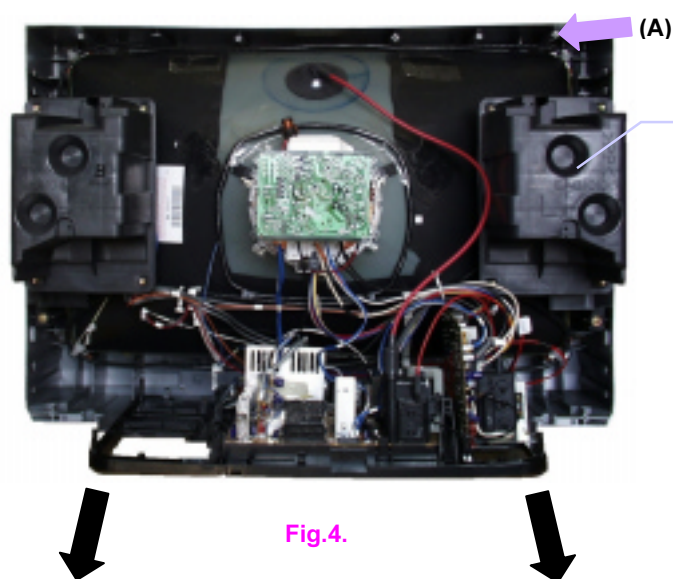


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clumper from the mains lead and affix, using back cover screw, into top right-hand cabinet rib (A), shown in **Fig.4**.
2. Remove 2 screws (B), as shown in **Fig.5**, and remove speaker assembly.
3. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.4**.
4. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
5. Locate the base of the chassis frame into location (C), shown in **Fig.6 / Fig.8**.
6. Clip the chassis frame onto the bead clumper, shown in **Fig.6 / Fig.7**.
7. After servicing replace the bead clumper and speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.



Screws
(B)

Fig.5.

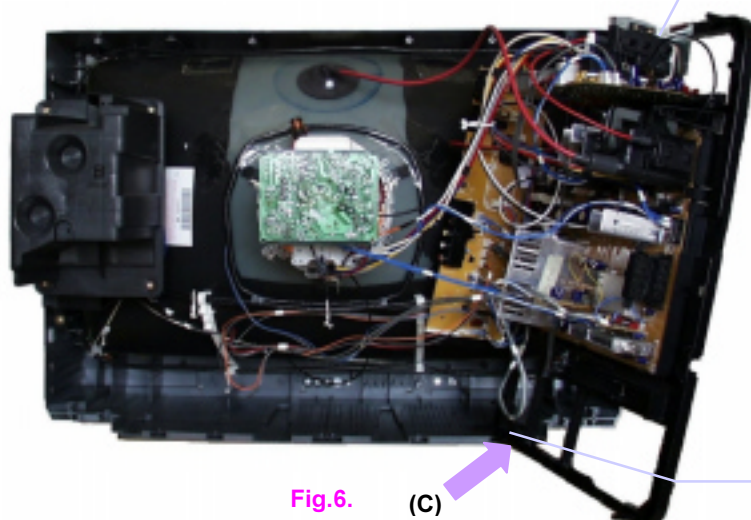


Fig.6.

(C)



Fig.7.




Fig.8.

ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness Minimum Contrast Minimum Volume Minimum	1. Set the +B voltage up as follows:- Adjust R811 so that B2 shows 148V±1V. 2. Confirm the following voltages. B9 5 ± 0,25V B10 5 ± 0,25V B5 12 ± 0,5V B11 33 ± 1,5V B4 16 ± 1V B7 8 ± 0,5V B12 26 ± 1V B8 5,5 ± 0,5V B3 35 ± 1V B13 15 ± 1V B1 200 ± 10V B14 -15 ± 1V
CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press " STR " and adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is 160V±5V, press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (**-/v**) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button  on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	--		
OPTION 1	00		
OPTION 2	A1		
OPTION 3	02		
OPTION 4	40		
OPTION 5	B1		
OPTION 6	E9		

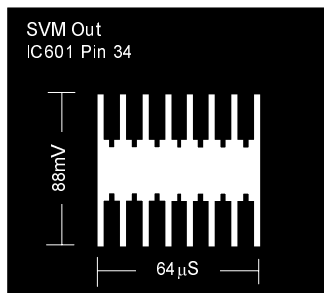
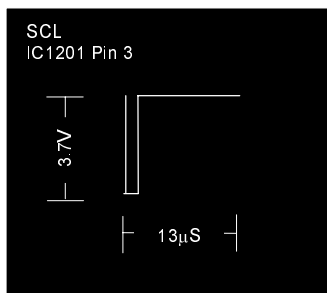
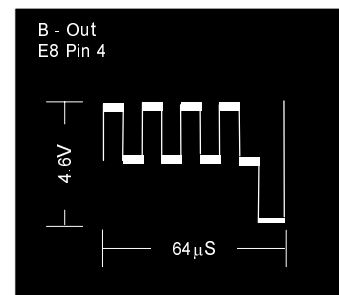
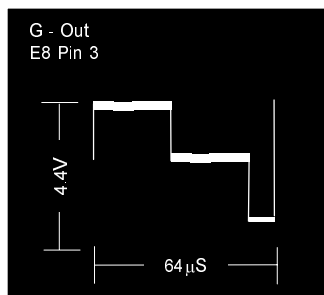
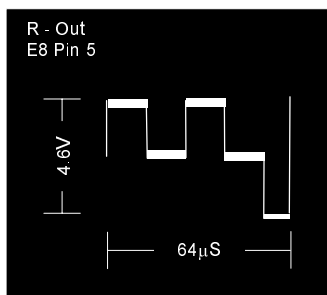
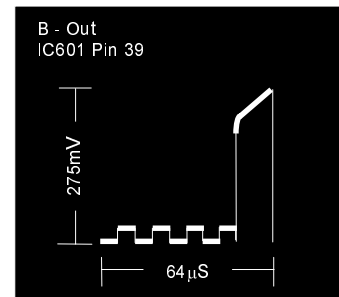
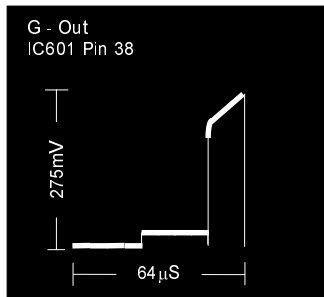
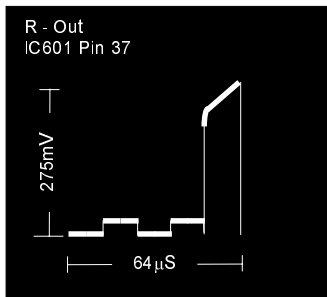
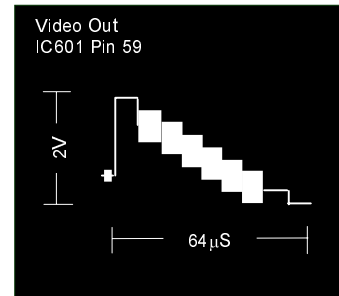
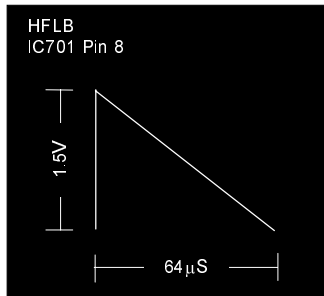
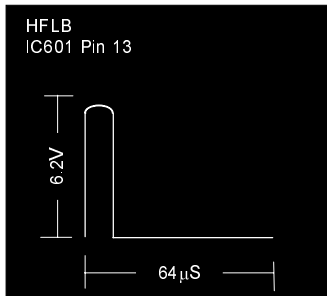
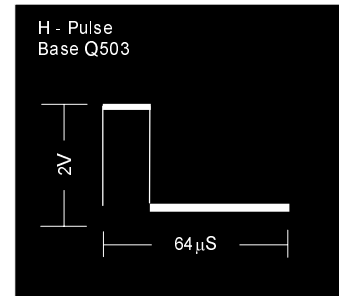
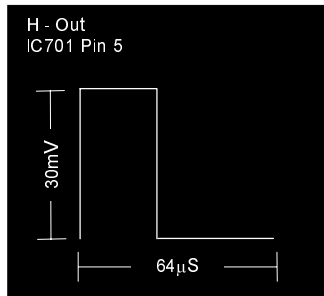
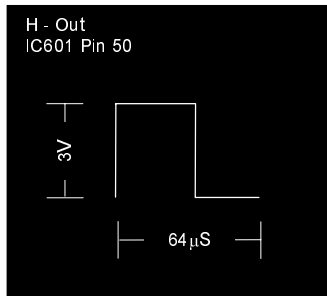
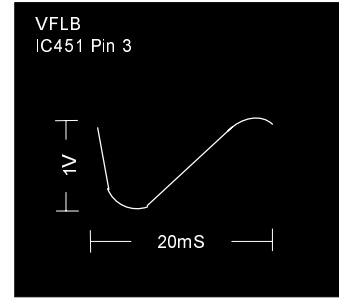
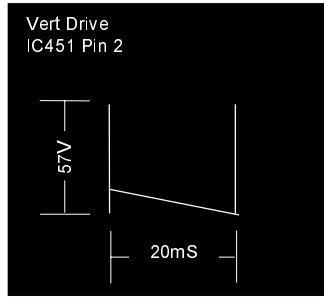
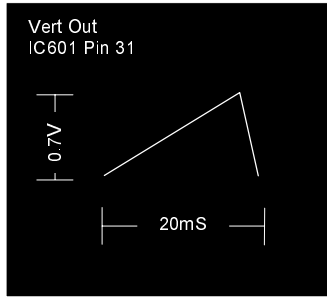
If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

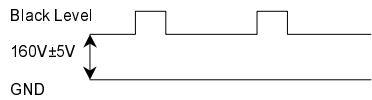
- **LUCI** interface kit (Linked Utility Computer Interface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (Visual Interactive Computer Information)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No. TZS7EZ006, TZS7EZ005 & TZS8EZ001
 1. Service Manuals
 2. Instruction Books
 3. Technical Information
- **TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
 As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

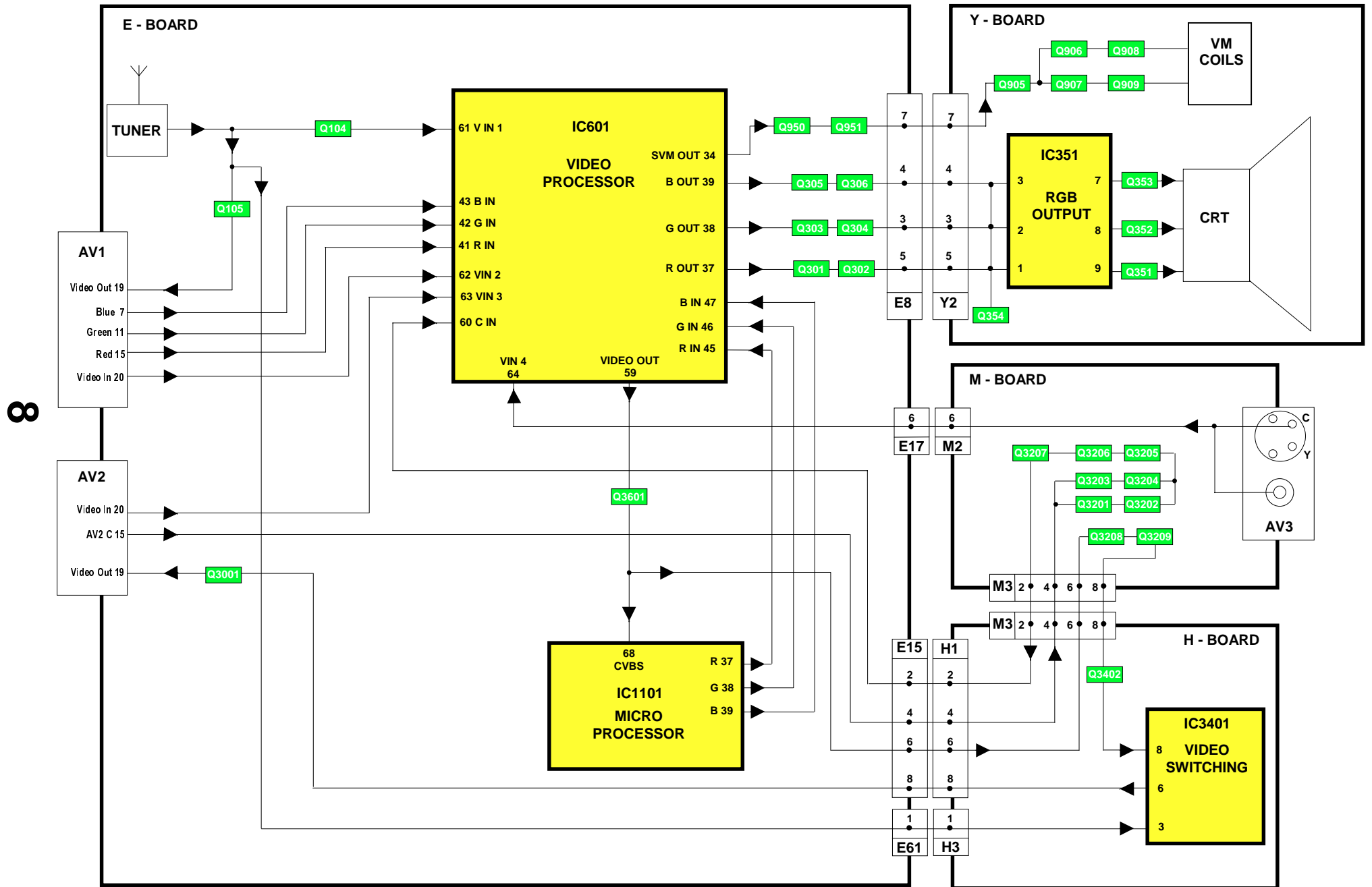


ALIGNMENT SETTINGS

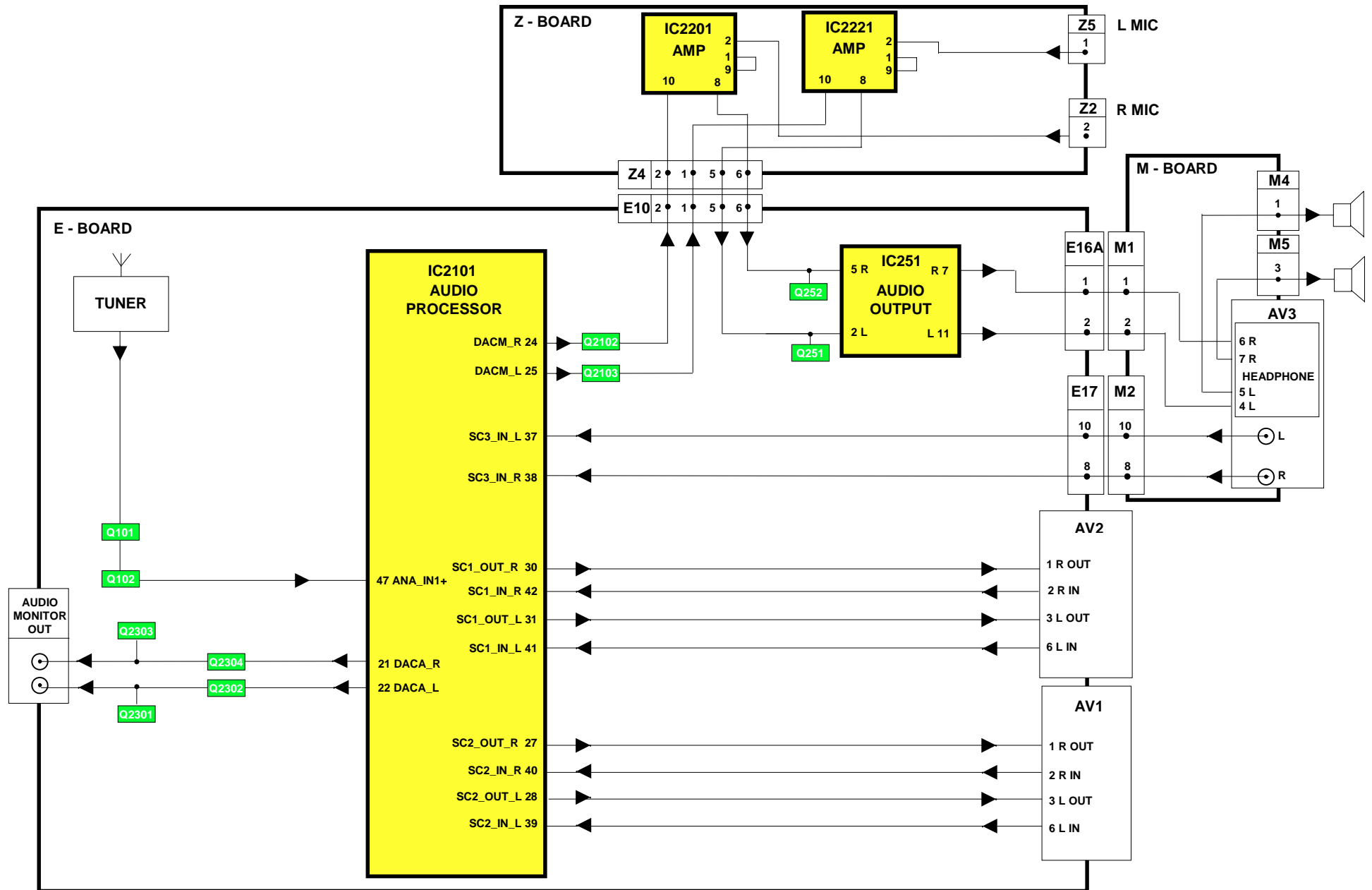
(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	EW-Amp1 -128	Optimum setting.
EW-amplitude	EW-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the colours are changing slowly and press "STR" .
Cut-off DC	Cut-off 0171	<p>To adjust Cutoff connect an oscilloscope to the blue cathode. Press "STR" and adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is 160V±5V press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."</p> 
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

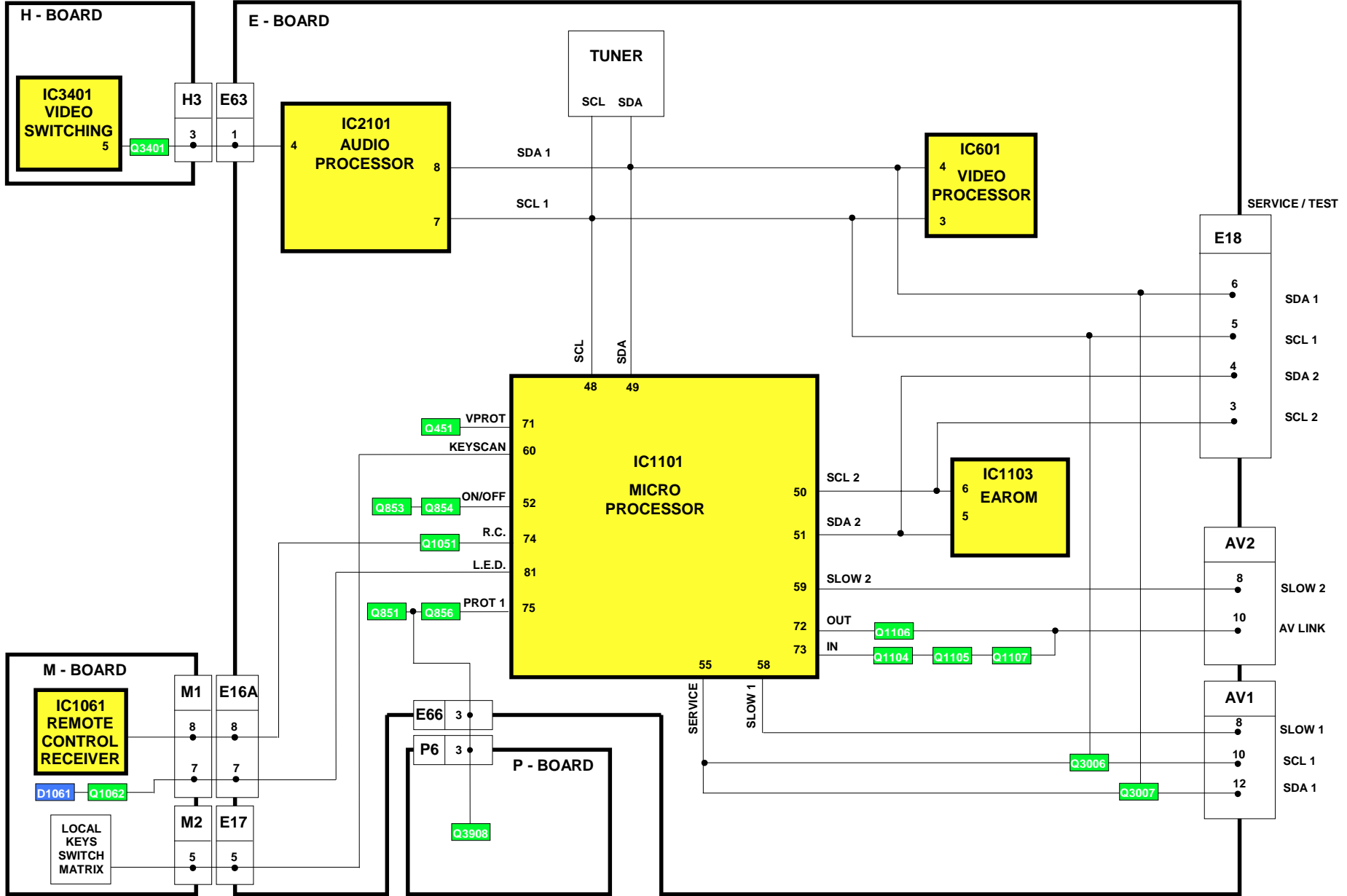
VIDEO BLOCK DIAGRAM



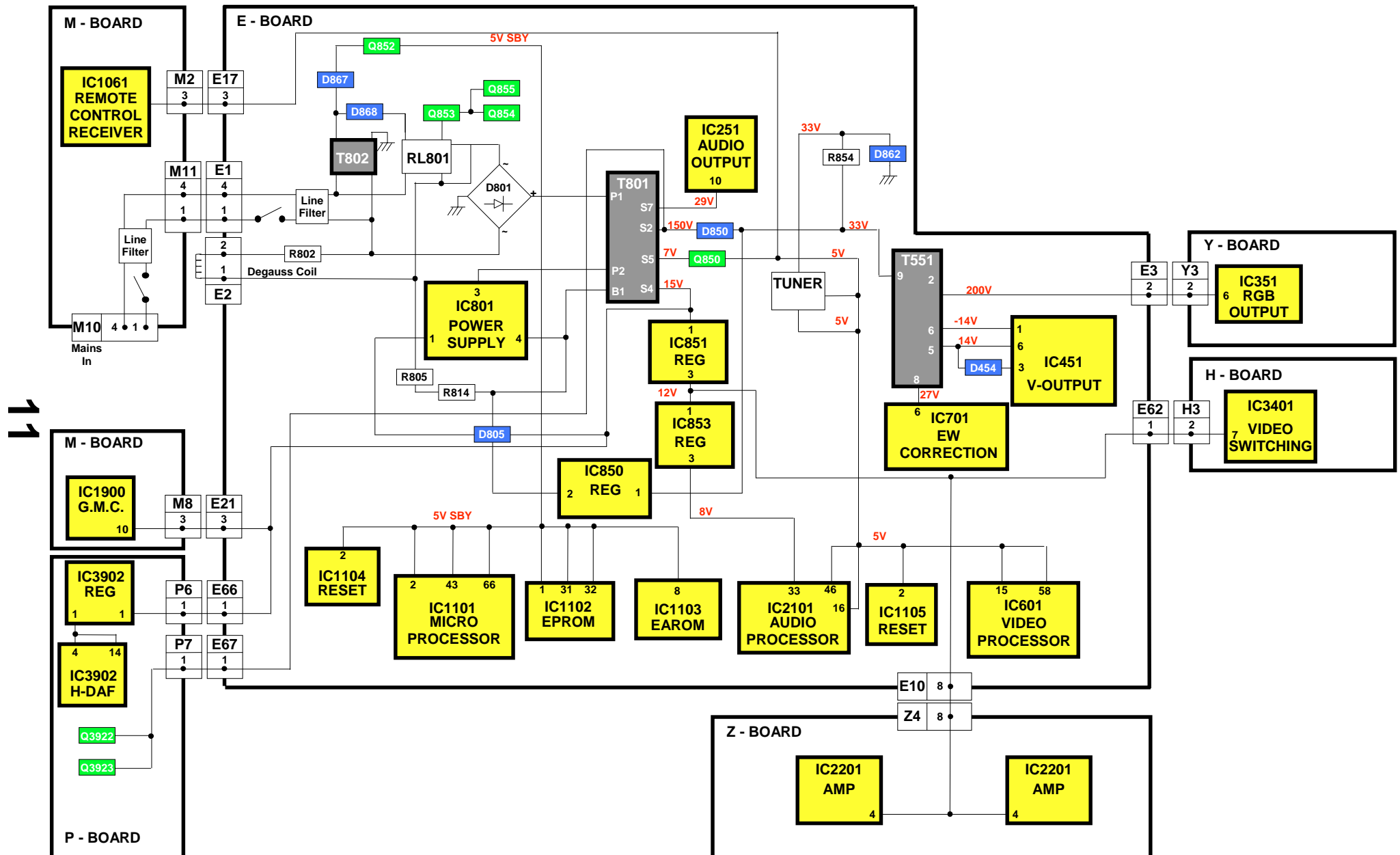
AUDIO BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM



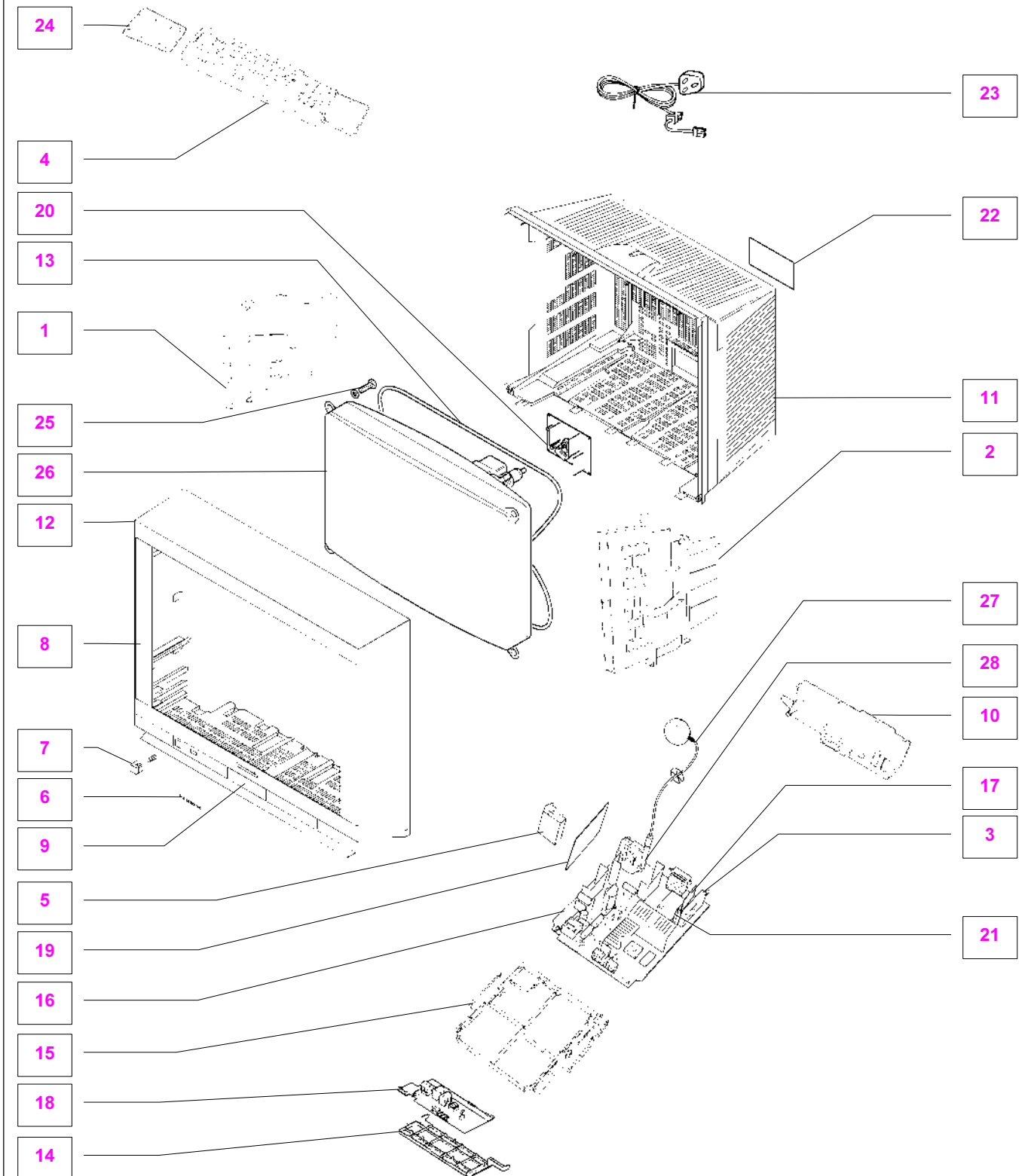
POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION


NOTE:
















The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.






REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description
MECHANICAL PARTS		
1	EAB10106BL	LEFT SPEAKER
2	EAB10106BR	RIGHT SPEAKER
3	ENG27506GR	TUNER 
4	EUR511210	REMOTE CONTROL
5	HFV598-E06	DAF BLOCK
6	TBMA060	PANASONIC BADGE
7	TBX8E068	POWER BUTTON
8	TKP8E1285	SPAEAKER NET
9	TKP8E1287	LID DOOR
10	TKP8E1301	REAR AV PANEL
11	TKU8E00480	BACK COVER 
12	TKY8E390	CABINET 
13	TLK8E05123	DEGAUSS COIL 
14	TMW8E031-1	CONTROL BRACKET
15	TMX8E037	CHASSIS FRAME
16	TNP8EE009DM	E P.C.B. 
17	TNP8EH002AB	H P.C.B. 
18	TNP8EM021AB	M P.C.B. 
19	TNP8EP016AA	P P.C.B. 
20	TNP8EY017AA	Y P.C.B. 
21	TNP8EZ001AB	Z P.C.B. 
22	TQF8E2816	MODEL LABEL 
23	TSX8E0032	POWER CORD 
24	UR51EC904A	BATTERY COVER (REMOTE)
25	VP19151	C.R.T. FIXING SCREW
26	W76LPX955X06	C.R.T. 
27	ZTBZAD550A	ANODE CABLE
28	ZTFM05007A	F.B.T. 
MISCELLANEOUS COMPONENTS		
	31221212478	FIX CLIP
	832AG11D-ESL	IC SOCKET
	F9-4-220	RELAY
	PLCC-84-T	84 PIN IC SOCKET
	TBM8E1935-1	PRESET LABEL
	TBM8E1936-1	PRESET LABEL
	TBM8E1942	AV PANEL LABEL
	TEK6940	LID CATCH
	TES8E019	POWER BUTTON SPRING
	TKP8E1288	LED COVER
	TKP8E1300	I.R. COVER
	TLK8E05124	GEOMAGNETIC COIL 
	TMW8E030	LED HOLDER
	TPC8E4750	OUTER CARTON
	TPD8E689	TOP CUSHION
	TPD8E690	BOTTOM CUSHION
	TPD8E703	SUB CUSHION
	UM-3DJ-2P	BATTERY PACK
	VS-PK1/2	VIDEO CABINET
CK420	VP19001	C.R.T. BUSH
CK421	VP19001	C.R.T. BUSH
CK422	VP19001	C.R.T. BUSH

Cct Ref	Parts Number	Description
CK423	VP19001	C.R.T. BUSH
R802	232266296706	THERMISTOR 
RL580	DH12D1-O-Q	RELAY
RL801	TSE1885-1	RELAY
S351	0330770044	CRT SOCKET
INSTRUCTION BOOKS		
	TQB8E2796	ENGLISH 
I.C.s		
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6103Q-N3	R.G.B. OUTPUT
IC451	LA7845N	VERTICAL OUTPUT
IC601	VDP3120BPPC2	VIDEO PROCESSOR
IC701	TEA2031A	E/W CORRECTION
IC801	STRF6654LF51	POWER SUPPLY
IC850	SE140N	ERROR AMPLIFIER
IC851	L78M12MRB	12V REGULATOR
IC853	AN78L08TA	8V REGULATOR
IC1061	RPM-637CBRL	LED RECEIVER
IC1101	SDA5450C59	MICRO PROCESSOR
IC1102	27C2001-L08	EPROM *
IC1103	XDG2-01HA	EAROM *
IC1104	MN1381-R(TA)	RESET
IC1105	MN1381-T(TA)	RESET
IC1900	LA6515	EARTH CORRECTION
IC2101	MSP3410DPOB4	AUDIO PROCESSOR
IC2201	AN6554NSF-E2	OPERATIONAL AMPLIFIER
IC2221	AN6554NSF-E2	OPERATIONAL AMPLIFIER
IC3401	TEA2114	VIDEO SWITCHING
IC3901	AN5422K	DYNAMIC FOCUS
IC3902	L78M12MRB	12V REGULATOR
FUSES		
F802	19181-3.15	FUSE 
F8021	EYF52BC	FUSE HOLDER
F8022	EYF52BC	FUSE HOLDER
DIODES		
D251	MA2180BLFS	DIODE
D253	MA700TA5	DIODE
D254	MA700TA5	DIODE
D354	1SR124-4AT82	DIODE
D355	1SR124-4AT82	DIODE
D356	1SR124-4AT82	DIODE
D357	MA165TA5	DIODE
D358	MA165TA5	DIODE
D359	MA165TA5	DIODE
D360	MTZJT-7715A	DIODE
D361	MA165TA5	DIODE
D362	MA165TA5	DIODE
D363	MA165TA5	DIODE
D364	MA165TA5	DIODE
D453	MA165TA5	DIODE
D454	ERA15-02V3	DIODE

Cct Ref	Parts Number	Description
D456	MTZJT-775.6C	DIODE
D457	MA165TA5	DIODE
D501	MA165TA5	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047	DIODE
D552	RU3LFA1	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	MA165TA5	DIODE
D557	EU02	DIODE
D558	1SR124-4AT82	DIODE
D580	ERD07-15L7	DIODE
D581	MA165TA5	DIODE
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D618	MTZJT-778.2C	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT-775.6C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	TVSRU2AMLFA5	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1C	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D901	MA165TA5	DIODE
D902	MA165TA5	DIODE
D904	MA165TA5	DIODE
D905	MA165TA5	DIODE
D906	RLS72TE-11	DIODE
D1061	LN81RPHL	DIODE
D1101	MA165TA5	DIODE
D1102	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE

Cct Ref	Parts Number	Description
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
D3901	MTZJT-779.1C	DIODE
D3907	ERA22-06V3	DIODE
D3908	ERA22-06V3	DIODE
D3909	MA165TA5	DIODE
D3910	RP1HLFA5	DIODE
D3911	RP1HLFA5	DIODE
D3912	1SS254T-77	DIODE
D3915	MTZJT-7710D	DIODE
D3917	MA165TA5	DIODE
D3920	MA165TA5	DIODE
D3921	MTZJT-7724D	DIODE
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR
Q302	FMY4T148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4T148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4T148	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398-M2	TRANSISTOR
Q551	2SD1577LB	TRANSISTOR
Q552	2SC1473-RN	TRANSISTOR
Q580	BC847B	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD1273PLB	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SC1383-S	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q950	BC847B	TRANSISTOR
Q951	FMY4T148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2201	BC847B	TRANSISTOR
Q2202	BC847B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR
Q3901	BC847B	TRANSISTOR
Q3902	BC847B	TRANSISTOR
Q3903	BC847B	TRANSISTOR
Q3904	BC857B	TRANSISTOR
Q3905	2SK1006RF122	TRANSISTOR
Q3906	2SC4572RB	TRANSISTOR
Q3907	BC847B	TRANSISTOR
Q3908	BC847B	TRANSISTOR
Q3911	BC847B	TRANSISTOR
Q3912	BC847B	TRANSISTOR
Q3917	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T801	ETS42AE256AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER
T3901	ETF18L32B	TRANSFORMER
COILS		
L104	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L580	ELC08D682E	COIL
L581	ELHKLBO57B	COIL
L582	ELC18B102E	COIL
L584	ELH5L6120	COIL
L585	ELC18B151L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D682E	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39V	COIL
L901	EXCELSA24T	COIL


Cct Ref	Parts Number	Description
L902	EXCELSA24T	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L1900	EXCELD2R25V	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3203	TLT390K991R	COIL
L3204	TLT331K991R	COIL
L3401	ELESN2R2KA	COIL
L3402	ELESN2R2KA	COIL
L3902	ELEKN103KA	COIL
FILTERS		
L804	ELF18N012A	LINE FILTER
L1901	ELF18N012A	LINE FILTER
CRYSTALS		
X601	4730007267	CRYSTAL
X1101	TSSA121	CRYSTAL
X2101	4730007158	CRYSTAL
RESISTORS		
	ERC12GK825	SOLID 0.5W 10% 8M2 Ω
C101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA8	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA20	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA21	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA23	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA25	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA29	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA30	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA31	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA32	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA33	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA34	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA35	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω

Cct Ref	Parts Number	Description			
JA36	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA37	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA38	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA39	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA40	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA43	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA44	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA45	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA46	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA47	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA48	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA49	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA50	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA51	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA52	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA53	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA54	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA55	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA56	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA57	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA58	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA59	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA60	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA61	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE48	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE49	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSP09	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSP15	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSZ004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L2201	ERQ14AJW220	METAL	0.25W	5%	22 Ω
R101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R111	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R114	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R115	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R251	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R252	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R258	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description			
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R269	ERQ14AJ101	METAL	0.25W	5%	100 Ω
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω
R301	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R303	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R304	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R305	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R307	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R308	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R309	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R310	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R311	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R312	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R357	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R358	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R359	ERDS1TJ114	CARBON	0.5W	5%	110K Ω
R363	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R364	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R365	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω
R369	ERD25TJ472	CARBON	0.25W	5%	4K7 Ω
R370	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120 Ω
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω
R374	ERD25TJ274	CARBON	0.25W	5%	270K Ω
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R377	ERQ12HKR22	FUSIBLE	0.5W	5%	R22 Ω
R378	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R380	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R455	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5 Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R460	ERDS1TJ221	CARBON	0.5W	5%	220 Ω
R461	ERW2PK1R2	WOUND	2W	10%	1R2 Ω
R463	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R464	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R465	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω
R506	ERD25TJ560	CARBON	0.25W	5%	56 Ω

Cct Ref	Parts Number	Description				
R507	ERG2FJ470H	METAL	2W	5%	47 Ω	△
R509	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω	
R510	ERDS1FJ152	CARBON	0.5W	5%	1K5 Ω	△
R555	ERQ12HKR33	METAL	0.5W	5%	R33 Ω	△
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω	
R559	ERQ12HKR33	METAL	0.5W	5%	R33 Ω	△
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω	
R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R563	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K Ω	
R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K Ω	
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R567	ERF72K4R7	WOUND	7W	5%	4R7 Ω	△
R580	ERG1SJ101	METAL	1W	5%	100 Ω	
R581	ERG1SJ152	METAL	1W	5%	1K5 Ω	
R583	ERG1SJ152	METAL	1W	5%	1K5 Ω	
R584	ERG3FJ222H	METAL	3W	5%	2K2 Ω	△
R585	ERG3FJ222H	METAL	3W	5%	2K2 Ω	△
R587	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R588	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R589	ERDS1TJ680	CARBON	0.5W	5%	68 Ω	
R590	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R603	ERJ8GEYJ103	S.M.CARB	.125W	5%	10K Ω	
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R605	ERD25TJ331	CARBON	0.25W	5%	330 Ω	
R606	ERD25TJ331	CARBON	0.25W	5%	330 Ω	
R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R615	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R648	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω	
R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100 Ω	△
R702	ERQ12HJ8R2	FUSIBLE	0.5W	5%	8R2 Ω	△
R703	ERG2FJ821	METAL	2W	5%	820 Ω	△
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R711	ERG1SJ101	METAL	1W	5%	100 Ω	
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω	
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω	

Cct Ref	Parts Number	Description				
R810	ERW2PKR27	WOUND	2W	10%	R27 Ω	△
R811	ERW2PKR27	WOUND	2W	10%	R27 Ω	△
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	△
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	△
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R854	ERG2FJ223	METAL	2W	5%	22K Ω	△
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω	△
R861	ERD25TJ221	CARBON	0.25W	5%	220 Ω	
R862	ERD25TJ272	CARBON	0.25W	5%	2K7 Ω	
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω	
R864	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R872	ERG1SJ183	METAL	1W	5%	18K Ω	
R873	ERG1SJ223	METAL	1W	5%	22K Ω	
R874	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R877	ERW2PKR47	WOUND	2W	10%	R47 Ω	△
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R913	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R914	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R915	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R916	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	△
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	△
R921	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R922	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R923	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R924	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	△
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R927	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FJ471	CARBON	0.5W	5%	470 Ω	△
R930	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R931	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	△
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω	△
R936	ERQ1CJP331	FUSIBLE	1W	5%	330 Ω	△
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	

Cct Ref	Parts Number	Description			
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1180	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω
R1900	ERQ12HJ150	FUSIBLE	0.1W	5%	15 Ω 
R1901	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1902	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1903	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1904	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω

Cct Ref	Parts Number	Description			
R1905	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1906	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R1907	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R1908	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150K Ω
R1909	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω
R1910	ERDS1TJ8R2	CARBON	0.5W	5%	8R2 Ω
R1911	ERDS1TJ8R2	CARBON	0.5W	5%	8R2 Ω
R1912	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2118	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2200	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2201	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R2202	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2203	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2204	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2205	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2206	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2207	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2208	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2209	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R2211	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R2213	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R2214	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2215	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2220	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2221	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R2222	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2223	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2224	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2225	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2226	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2227	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2228	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2230	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R2231	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R2232	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R2233	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R2234	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2235	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2240	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description			
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3009	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3010	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3011	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3012	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3022	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3023	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3024	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3025	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3026	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3044	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3202	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R3203	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R3204	ERG2FJ221	METAL	2W	5%	220 Ω ▲
R3205	ERG2FJ221	METAL	2W	5%	220 Ω ▲
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3211	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3212	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3217	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3218	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3222	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3223	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3402	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω

Cct Ref	Parts Number	Description			
R3403	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3404	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω
R3405	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3406	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300 Ω
R3407	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3408	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3409	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3607	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3608	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R3609	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3613	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3918	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3919	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R3920	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3921	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3922	EVMEASA00B53	CONTROL			5K Ω
R3923	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3925	ERO25CKF1272	METAL	0.25W	5%	2K7 Ω ▲
R3926	ERO25CKF3242	METAL	0.25W	5%	2K4 Ω ▲
R3927	ERD25TJ103	CARBON	0.25W	5%	10K Ω
R3928	ERDS1FJ103	CARBON	0.5W	5%	10K Ω ▲
R3929	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3930	ERDS1FJ103	CARBON	0.5W	5%	10K Ω ▲
R3931	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3932	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3933	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3934	ERJ6GEYJ125	S.M. CAR	0.1W	5%	1M2 Ω
R3935	ERDS1FJ561	CARBON	0.5W	5%	56 Ω ▲
R3936	ERJ6GEYJ820	S.M.CARB	0.1W	5%	82 Ω
R3938	EVMEASA00B53	CONTROL			5K Ω
R3939	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3941	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3942	ERD25TJ562	CARBON	0.25W	5%	5K6 Ω
R3943	ERDS1TJ104	CARBON	0.5W	5%	100K Ω
R3944	ERJ6GEYJ125	S.M. CAR	0.1W	5%	1M2 Ω
R3945	ERJ6GEYJ125	S.M. CAR	0.1W	5%	1M2 Ω
R3946	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3947	ERG2FJ123H	METAL	2W	5%	12K Ω ▲
R3949	ERDS1FJ332	CARBON	0.5W	5%	3K3 Ω ▲
R3950	ERG3FJ102H	METAL	3W	5%	1K Ω ▲
R3951	ERD25TJ334	CARBON	0.25W	5%	330K Ω
R3952	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3953	ERG2FJ100H	METAL	2W	5%	10 Ω ▲
R3954	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R3955	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3956	ERD25TJ104	CARBON	0.25W	5%	100K Ω
R3957	ERD25TJ104	CARBON	0.25W	5%	100K Ω
R3958	ERD25TJ104	CARBON	0.25W	5%	100K Ω
R3959	ERD25TJ104	CARBON	0.25W	5%	100K Ω
R3960	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω
R3961	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3962	ERD25TJ563	CARBON	0.25W	5%	56K Ω
R3963	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R3972	ERG2FJ471	METAL	2W	5%	470 Ω ▲
R3973	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3974	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3975	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3976	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω

Cct Ref	Parts Number	Description			
R3978	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3981	ERQ14AJ220	FUSIBLE	0.25W	5%	22 Ω ⚠
R3982	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R3983	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω
R3984	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3985	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3986	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3987	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R3988	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω
R3989	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3990	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3991	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3992	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3993	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3994	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
CAPACITORS					
C102	ECJ2VF1H103Z	ELECT	350V		10nF
C103	ECJ2VF1H104Z	ELECT	350V		100nF
C106	ECUV1H560JCX	S.M. CAP	50V		56pF
C107	ECJ2VF1H104Z	ELECT	350V		100nF
C108	ECA1CM100GB	ELECT	16V		10 μ F
C109	ECUV1H102JCX	S.M. CAP	50V		1nF
C110	ECJ2VF1H103Z	ELECT	350V		10nF
C111	ECA1HMR33GB	ELECT	50V		0.33 μ F
C117	ECJ2VF1H103Z	ELECT	350V		10nF
C118	ECJ2VF1H104Z	ELECT	350V		100nF
C119	ECA1CM221GB	ELECT	16V		220 μ F
C120	ECA1CM221GB	ELECT	16V		220 μ F
C121	ECUV1H561KBX	S.M. CAP	50V		560pF
C124	ECUV1H220JCX	S.M. CAP	50V		22pF
C125	ECUV1H100DCX	S.M. CAP	50V		10pF
C251	ECA1CM470GB	ELECT	16V		47 μ F
C252	ECUV1H103KBX	S.M. CAP	50V		10nF
C253	ECA1HM4R7GB	ELECT	50V		4.7 μ F
C254	ECQM1H684J	FILM	50V		680nF
C255	ECA1EM101GB	ELECT	25V		100 μ F
C256	ECUV1H103KBX	S.M. CAP	50V		10nF
C257	ECA1HMR47GB	ELECT	50V		4.7 μ F
C258	ECA1CM470GB	ELECT	16V		47 μ F
C259	ECQM1H684J	FILM	50V		680nF
C260	ECA1VM102GB	ELECT	35V		1nF
C261	ECA1VM102GB	ELECT	35V		1nF
C263	ECA1HM010GB	ELECT	50V		1 μ F
C264	ECA1HHG222E	ELECT	50V		2200 μ F
C266	ECA1HM010GB	ELECT	50V		1 μ F
C267	ECJ2VB1H104K	ELECT	350V		100nF
C268	ECJ2VB1H104K	ELECT	350V		100nF
C270	ECJ2VB1H104K	ELECT	350V		100nF
C301	ECJ2VB1C104K	ELECT	350V		100nF
C302	ECJ2VB1C104K	ELECT	350V		100nF
C303	ECJ2VB1C104K	ELECT	350V		100nF
C304	ECA1CM100GB	ELECT	16V		10 μ F
C351	ECUV1H090DCN	S.M. CAP	50V		90pF
C352	ECUV1H090DCN	S.M. CAP	50V		90pF
C353	ECUV1H090DCN	S.M. CAP	50V		90pF
C354	ECQM2104KZ	FILM	250V		100nF
C355	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C356	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C357	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C358	ECQM1H224J	FILM	50V		220nF
C360	ECKC3D272JB	CERAMIC	2KV		2.7nF ⚠
C361	ECA1HMR47GB	ELECT	50V		0.47 μ F
C363	ECA1VM471GB	ELECT	35V		470 μ F
C364	ECJ2VF1H103Z	ELECT	350V		10nF
C366	ECA1CM100GB	ELECT	16V		10 μ F
C451	ECUV1H102JX	S.M. CAP	50V		1nF

Cct Ref	Parts Number	Description			
C453	ECUV1H152KBX	S.M. CAP	50V		1.5pF
C454	ECUV1H223KBM	S.M. CAP	50V		22nF
C455	ECA1HM100GB	ELECT	50V		10 μ F
C456	ECA1HHG221B	ELECT	50V		220 μ F
C458	ECQB1222JF3	FILM	100V		2.2nF
C459	222236516154	FILM	160V		150nF
C461	ECCR2H270J	CERAMIC	500V		27pF
C508	ECQV1H105JZ	FILM	50V		1 μ F
C509	ECA1VM470B	ELECT	35V		47 μ F
C510	ECUV1H104KBX	S.M. CAP	50V		100nF
C511	ECQM2683JZ	FILM	250V		68nF
C512	ECKC2H472J	CERAMIC	500V		4.7nF ⚠
C551	ECKC3D681J	CERAMIC	2KV		680pF ⚠
C552	ECWH15H102JN	FILM	1500V		1nF
C556	ECQF6303JZ	FILM	630V		30nF
C557	ECKC2H471J	CERAMIC	500V		470pF ⚠
C558	ECA1HHG471E	ELECT	50V		470 μ F
C561	ECA1EHG102B	ELECT	25V		1000 μ F
C562	ECKC2H101J	CERAMIC	500V		100pF ⚠
C563	ECA2EHG220B	ELECT	250V		20 μ F
C564	ECEA2AU2R2	ELECT	100V		2.2 μ F
C565	ECQP1H273J	FILM	100V		2700 μ F
C566	ECKC2H471J	CERAMIC	500V		470pF ⚠
C567	ECA1EHG102B	ELECT	25V		1000 μ F
C568	ECKC2H471J	CERAMIC	500V		470pF ⚠
C569	ECKC2H102J	CERAMIC	500V		1nF ⚠
C570	ECUV1H221JCX	S.M. CAP	50V		220pF
C571	ECUV1H221JCX	S.M. CAP	50V		220pF
C580	ECQE2334B120	FILM	250V		330nF
C581	ECWF2H514J	FILM	500V		510nF ⚠
C582	ECWF2824JBB	FILM	200V		820nF ⚠
C583	ECWH15H562JN	FILM	1500V		5.6nF
C584	ECWH15H562JN	FILM	1500V		5.6nF
C585	ECUV1H103KBX	S.M. CAP	50V		10nF
C586	ECWF2H224J	FILM	500V		220nF ⚠
C601	ECUV1H104KBX	S.M. CAP	50V		100nF
C602	ECA1HM101GB	ELECT	50V		100 μ F
C603	ECUV1H102JCX	S.M. CAP	50V		1nF
C604	ECJ2VF1H223Z	ELECT	350V		22nF
C605	ECA1HM101GB	ELECT	50V		100 μ F
C606	ECA1HM3R3GB	ELECT	50V		3.3 μ F
C607	ECJ2VF1H104Z	ELECT	350V		100nF
C608	ECUV1H153KBX	S.M. CAP	50V		15nF
C609	ECUV1H153KBX	S.M. CAP	50V		15nF
C610	ECUV1H153KBX	S.M. CAP	50V		15nF
C611	ECUV1H153KBX	S.M. CAP	50V		15nF
C612	ECUV1H153KBX	S.M. CAP	50V		15nF
C613	ECUV1H153KBX	S.M. CAP	50V		15nF
C614	ECUV1H050CCX	S.M. CAP	50V		50pF
C615	ECUV1H050CCX	S.M. CAP	50V		50pF
C616	ECA1HM101GB	ELECT	50V		100 μ F
C617	ECUV1H223KBX	S.M. CAP	50V		22nF
C618	ECA1CM221GB	ELECT	16V		220 μ F
C619	ECJ2VB1H473K	ELECT	350V		47nF
C620	ECA1HM101GB	ELECT	50V		100 μ F
C621	ECJ2VB1C104K	ELECT	350V		100nF
C622	ECUV1H683KBX	S.M. CAP	50V		68nF
C623	ECUV1H102JCX	S.M. CAP	50V		1nF
C624	ECJ3VB1C474K	ELECT	3.5KV		470nF
C625	ECJ3VB1C474K	ELECT	3.5KV		470nF
C626	ECJ3VB1C474K	ELECT	3.5KV		470nF
C627	ECJ3VB1C474K	ELECT	3.5KV		470nF
C628	ECA1CM100GB	ELECT	16V		10 μ F
C629	ECUV1H104KBX	S.M. CAP	50V		100nF
C630	ECUV1H100DCX	S.M. CAP	50V		10pF
C631	ECUV1H683ZFX	S.M. CAP	50V		68nF

Cct Ref	Parts Number	Description			
C633	ECUV1H271JCX	S.M. CAP	50V	270pF	
C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF	
C701	ECA1HHG101B	ELECT	50V	100μF	
C702	ECUV1H103KBX	S.M. CAP	50V	10nF	
C703	ECEA1HGE100	ELECT	50V	10μF	
C704	ECQB1H223K	FILM	50V	22nF	
C705	ECQB1H222J	FILM	50V	2.2nF	
C804	222233510224	FILM	250V	220nF	
C806	ECKWNA101MBC	CERAMIC	400V	100μF	
C807	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C808	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C809	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C810	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C811	ECOS2GA221CA	ELECT	400V	220μF	
C814	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C815	ECKC1H471J	CERAMIC	50V	470pF	
C816	EEUFC1E820B	CERAMIC	25V	82pF	
C817	ECQE6104K	FILM	600V	100nF	⚠
C818	ECKWNA332MEC	CERAMIC	250V	3.3nF	
C819	ECQB1H152K	FILM	50V	1.5nF	
C850	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C851	ECA2CM221E	ELECT	160V	220μF	
C852	ECA2CHG101E	ELECT	160V	100μF	
C853	ECKC2H471J	CERAMIC	500V	470pF	⚠
C854	ECA1EM102GB	ELECT	25V	100μF	
C855	ECKC2H471J	CERAMIC	500V	470pF	⚠
C856	ECA1AHG222B	ELECT	10V	2200μF	
C857	ECKC2H471J	CERAMIC	500V	470pF	⚠
C858	ECEA1HGE102	ELECT	50V	1000μF	
C859	ECJ2VF1H104Z	ELECT	350V	100nF	
C860	ECA1HM101GB	ELECT	50V	100μF	
C862	ECJ2VF1H104Z	ELECT	350V	100nF	
C863	ECA1HM101GB	ELECT	50V	100μF	
C866	ECJ2VF1H104Z	ELECT	350V	100nF	
C867	ECA1CM100GB	ELECT	16V	10μF	
C868	ECA1CM100GB	ELECT	16V	10μF	
C869	ECA1EM101GB	ELECT	25V	100μF	
C870	ECA1EM471GB	ELECT	25V	470μF	
C871	ECA1CM102B	ELECT	16V	1000μF	
C872	ECA1CM471GB	ELECT	16V	470μF	
C873	ECA1CM100GB	ELECT	16V	10μF	
C875	ECA2CM4R7B	ELECT	160V	10μF	
C876	ECA1AHG471E	ELECT	10V	470pF	
C902	ECA1VM101GB	ELECT	35V	100μF	
C903	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C904	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C906	ECUV1H471KBX	S.M. CAP	50V	470pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2CU100	ELECT	160V	10μF	
C913	ECA1HM101GB	ELECT	50V	100μF	
C914	ECA1HM101GB	ELECT	50V	100μF	
C916	ECEA2CGE100	ELECT	160V	10μF	
C950	ECJ2VB1C104K	ELECT	350V	100nF	
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1062	ECA1HM101GB	ELECT	50V	100μF	
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1101	ECJ2VF1H104Z	ELECT	350V	100nF	
C1102	ECA0JM101G	ELECT	6.3V	100μF	

Cct Ref	Parts Number	Description			
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1106	ECKC2H681J	CERAMIC	500V	680pF	⚠
C1108	ECJ2VB1H333K	ELECT	350V	33nF	
C1111	ECA1CM100GB	ELECT	16V	10μF	
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1117	ECJ2VF1H104Z	ELECT	350V	100nF	
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1120	ECJ2VF1H104Z	ELECT	350V	100nF	
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF	
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1900	ECQB1H153K	FILM	50V	15nF	
C1901	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1903	ECA1EM470GB	ELECT	25V	47μF	
C1904	ECQB1H104J	FILM	50V	100nF	
C1905	ECQB1H104J	FILM	50V	100nF	
C1906	ECQE2A474MWB	FILM	250V	470nF	
C1909	ECUV1H103KBX	S.M. CAP	50V	10nF	
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2111	ECA1CM100GB	ELECT	16V	10μF	
C2112	ECA1CM100GB	ELECT	16V	10μF	
C2113	ECA1HM3R3GB	ELECT	50V	3.3μF	
C2114	ECJ2VF1H104Z	ELECT	350V	100nF	
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2121	ECA1CM100GB	ELECT	16V	10μF	
C2122	ECJ2VF1H104Z	ELECT	350V	100nF	
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2124	ECUV1H070DTX	S.M. CAP	50V	70pF	
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF	
C2126	ECUV1H070DTX	S.M. CAP	50V	70pF	
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2129	ECA1CM102B	ELECT	16V	1000μF	
C2130	ECA1CM331B	ELECT	16V	330μF	
C2131	ECJ2VF1H103Z	ELECT	350V	10nF	
C2132	ECJ2VF1H103Z	ELECT	350V	10nF	
C2134	ECJ2VF1H103Z	ELECT	350V	10nF	
C2135	ECA1HM101GB	ELECT	50V	100μF	
C2136	ECJ2VF1H104Z	ELECT	350V	100nF	
C2137	ECA1CM100GB	ELECT	16V	10μF	
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF	
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2140	ECA1HM101GB	ELECT	50V	100μF	

Cct Ref	Parts Number	Description		
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2200	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2201	ECA1HM100GB	ELECT	50V	10μF
C2202	ECA0JM101G	ELECT	6.3V	100μF
C2203	ECA1VM470B	ELECT	35V	47μF
C2204	ECA1HM4R7GB	ELECT	50V	4.7μF
C2205	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2206	ECA1HM100GB	ELECT	50V	10μF
C2207	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C2208	ECUV1H104KBX	S.M. CAP	50V	100nF
C2209	ECUV1H681JCX	S.M. CAP	50V	680pF
C2211	ECUV1C104KBX	S.M. CAP	16V	100nF
C2212	ECUV1C104KBX	S.M. CAP	16V	100nF
C2215	ECUV1H103KBX	S.M. CAP	50V	10nF
C2220	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2221	ECA1HM100GB	ELECT	50V	10μF
C2222	ECA0JM101G	ELECT	6.3V	100μF
C2223	ECA1VM470B	ELECT	35V	47μF
C2224	ECA1HM4R7GB	ELECT	50V	4.7μF
C2225	ECUV1H562KBX	S.M. CAP	50V	5.6nF
C2226	ECA1HM100GB	ELECT	50V	10μF
C2227	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C2228	ECUV1H104KBX	S.M. CAP	50V	100nF
C2229	ECUV1H681JCX	S.M. CAP	50V	680pF
C2231	ECUV1C104KBX	S.M. CAP	16V	100nF
C2232	ECUV1C104KBX	S.M. CAP	16V	100nF
C2235	ECUV1H103KBX	S.M. CAP	50V	10nF
C2240	ECA1CM470GB	ELECT	16V	47μF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470GB	ELECT	16V	47μF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470GB	ELECT	16V	47μF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47μF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47μF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47μF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47μF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3029	ECA1HM101GB	ELECT	50V	100μF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF
C3101	ECUV1H104KBX	S.M. CAP	50V	100nF
C3102	ECUV1E104KBX	S.M. CAP	25V	100nF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF


Cct Ref	Parts Number	Description		
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470GB	ELECT	50V	47μF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3208	ECA1HM470GB	ELECT	50V	47μF
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3221	ECA1HM4R7GB	ELECT	50V	4.7μF
C3401	ECQM1H224J	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	ECA1HM101GB	ELECT	50V	100μF
C3404	ECQM1H224J	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	ECA1HM101GB	ELECT	50V	100μF
C3601	ECA1HM101GB	ELECT	50V	100μF
C3909	ECQB1H153K	FILM	50V	15nF
C3910	ECA1HM010GB	ELECT	50V	1μF
C3911	ECQB1H153K	FILM	50V	15nF
C3912	ECQM1472GZ	FILM	100V	4.7nF
C3913	ECQV1H105JZ	FILM	50V	1μF
C3914	ECA1CM331B	ELECT	16V	330μF
C3915	ECQB1H103J	FILM	50V	10nF
C3916	ECQM1H154J	FILM	50V	150nF
C3917	ECQM1H154J	FILM	50V	150nF
C3918	ECQB1H682K	FILM	50V	6.8nF
C3919	ECQB1H333J	FILM	50V	33nF
C3920	ECQB1H562K	FILM	50V	5.6nF
C3921	ECKC3A821J	CERAMIC	1KV	820pF
C3922	ECKC3A391J	CERAMIC	1KV	390pF
C3923	ECEA1HN100UB	ELECT	50V	10μF
C3924	ECKC3A182J	CERAMIC	1KV	1800pF
C3925	ECKC3A151J	CERAMIC	1KV	150pF
C3926	ECKC3A101J	CERAMIC	1KV	100pF
C3927	ECA1HM010GB	ELECT	50V	1μF
C3928	ECQM4223JZW	FILM	400V	22nF
C3929	ECQM4223JZW	FILM	400V	22nF
C3931	ECKC3D101J	CERAMIC	2KV	100pF
C3932	ECUV1H103KBX	S.M. CAP	50V	10nF
C3933	ECKC3A471J	CERAMIC	1KV	470pF
C3936	ECA2CM330B	ELECT	160V	33μF
C3937	ECQM1H104J	FILM	50V	100nF
C3939	ECA1HM3R3GB	ELECT	50V	3.3μF
C3940	ECA1CM471GB	ELECT	16V	470μF
C3941	ECA1HMR47GB	ELECT	50V	0.47μF
C3942	ECEA1HN010UB	ELECT	50V	1μF
C3943	ECUV1H101JCX	S.M. CAP	50V	100pF
C3944	ECQB1H103J	FILM	50V	10nF
C3945	ECA1HM100GB	ELECT	50V	10μF
C3946	ECQB1H333J	FILM	50V	33nF
C3947	ECKC3D102J	CERAMIC	2KV	1nF
C3948	ECQV1H105JZ	FILM	50V	1μF
C3949	ECQM1H684J	FILM	50V	680nF
C3950	ECUV1H104KBX	S.M. CAP	50V	100nF
C3951	ECA1HM101GB	ELECT	50V	100μF
C3952	ECWH15H102JN	FILM	1500V	1nF

SCHEMATIC DIAGRAMS FOR MODEL

TX-32PK1


(EURO-4 CHASSIS)



IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.



NOTE

1. RESISTOR
All resistors are carbon 1/4W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.
3. COIL
Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT
 Test Point Position

5. EARTH SYMBOL
 Chassis Earth (Cold)
 Line Earth (Hot)

6. VOLTAGE MEASUREMENT
Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.
 Indicates the Video signal path
 Indicates the Audio signal path

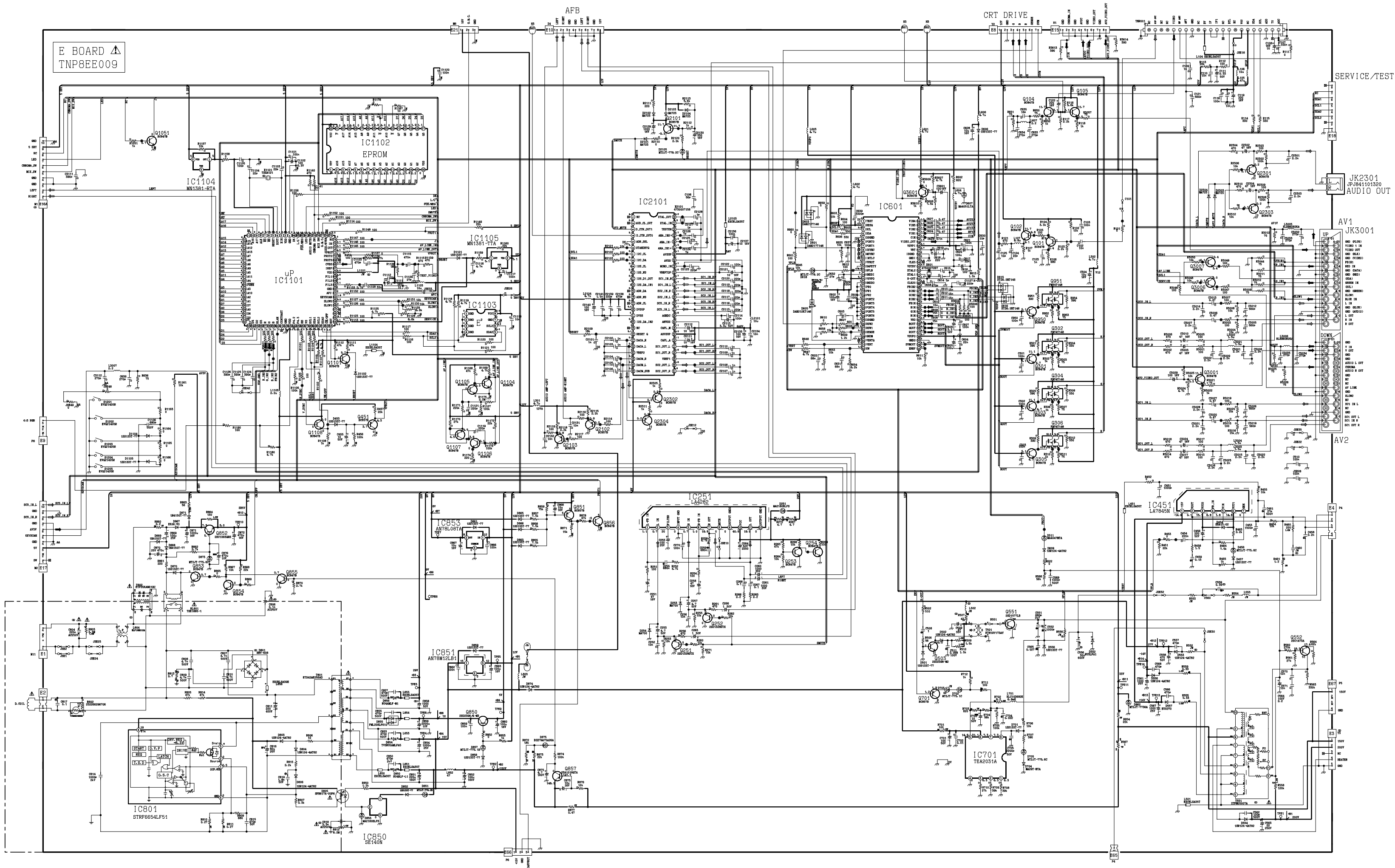
These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

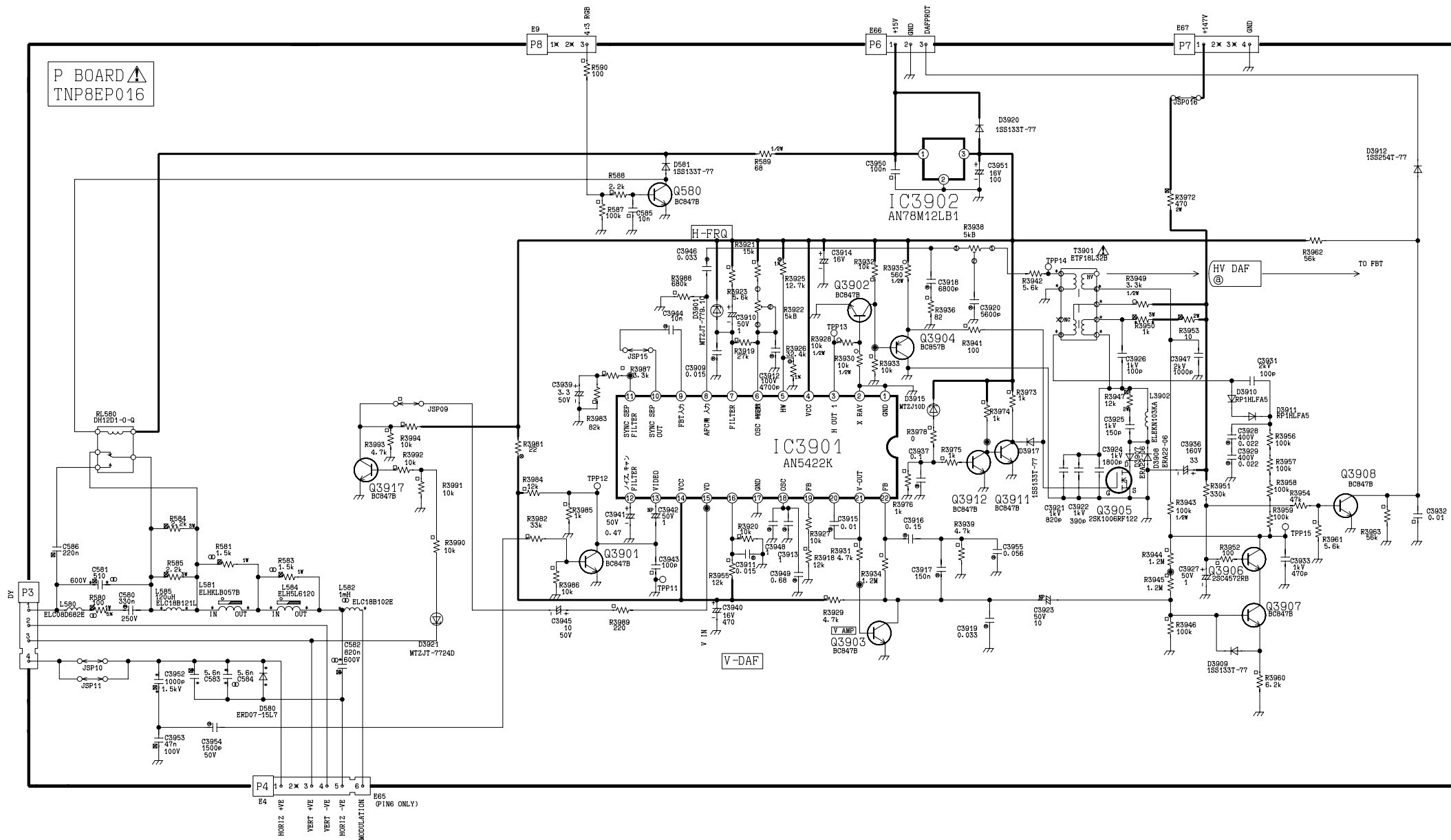
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

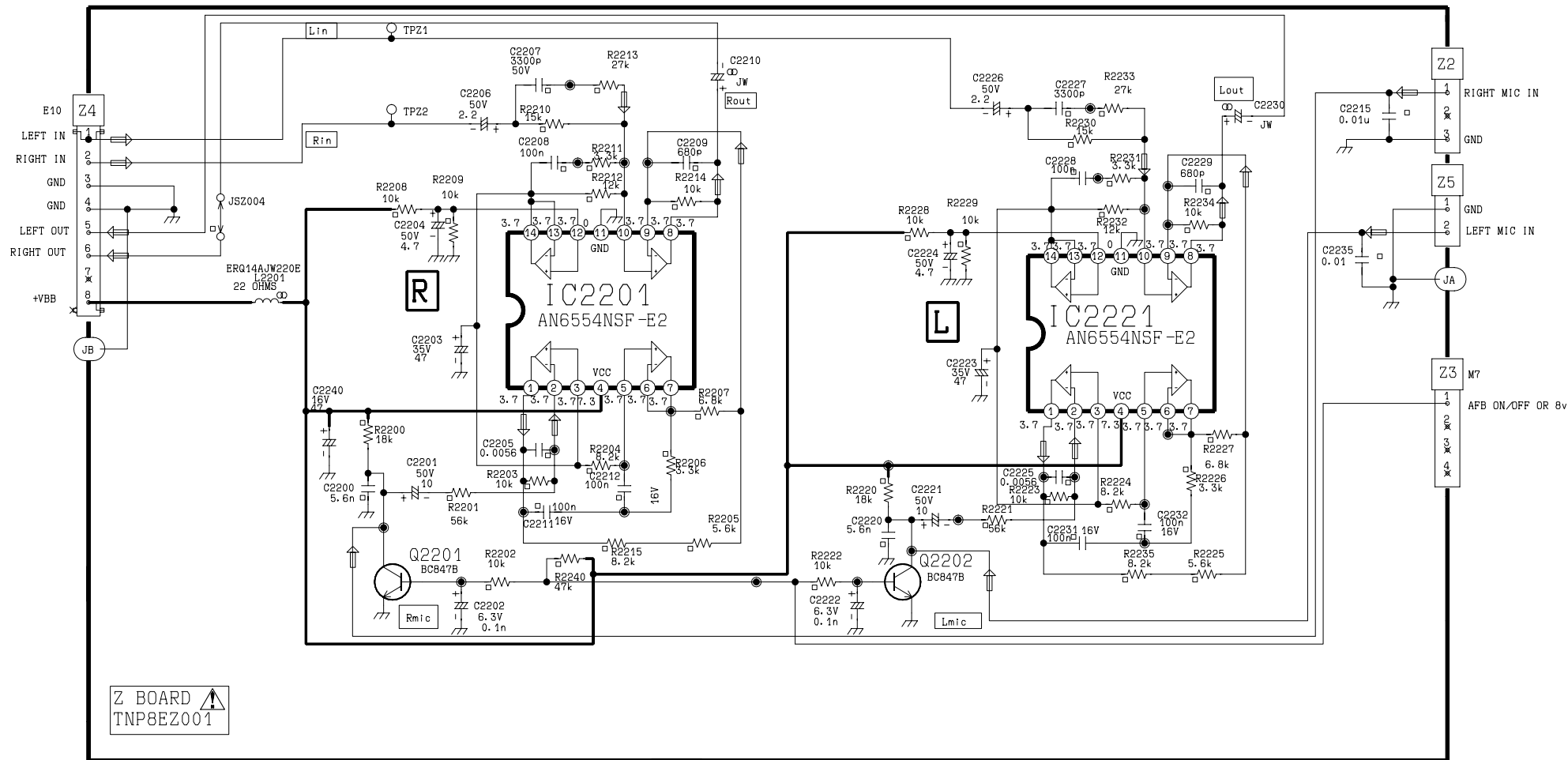
NOTE

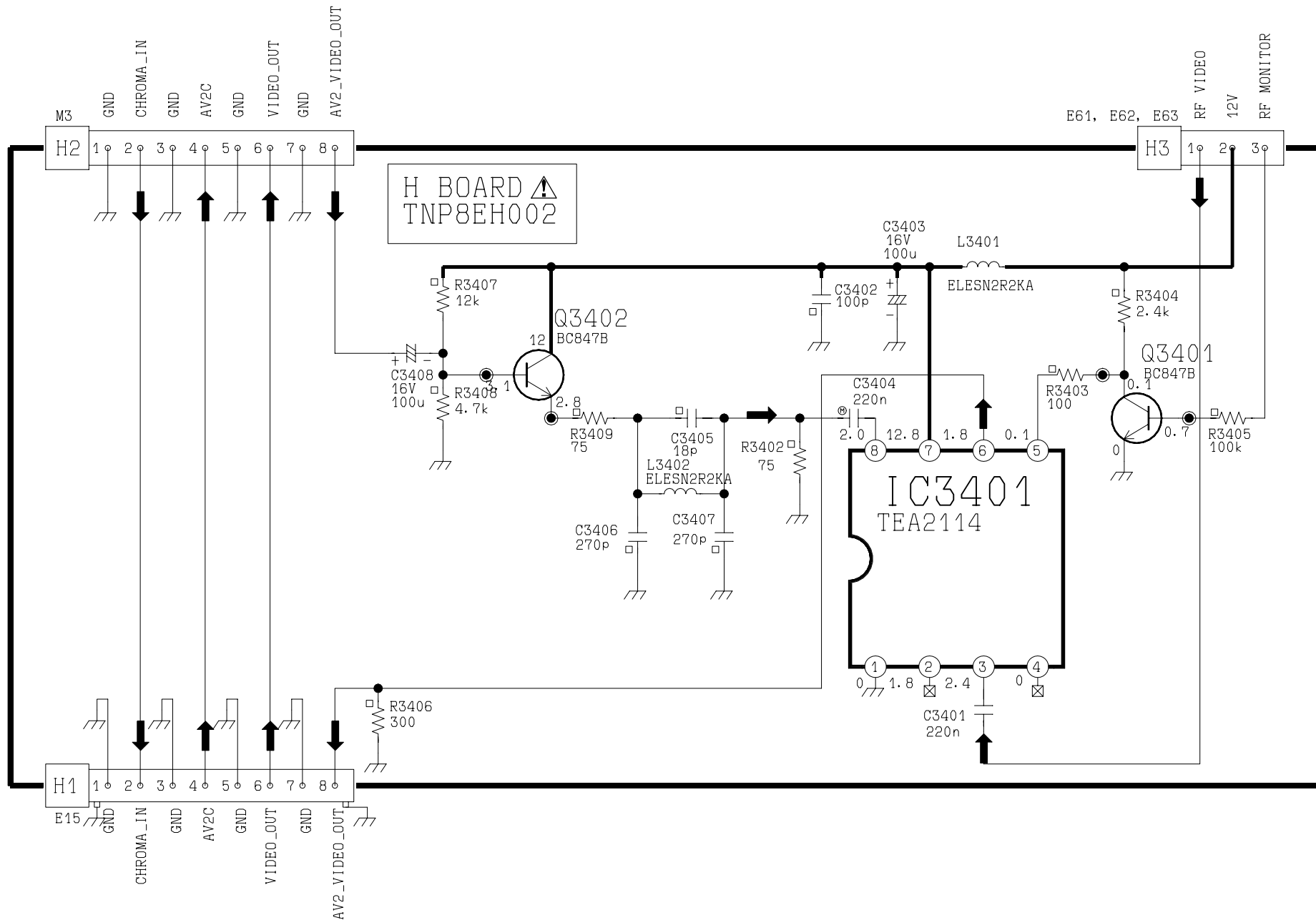
1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.



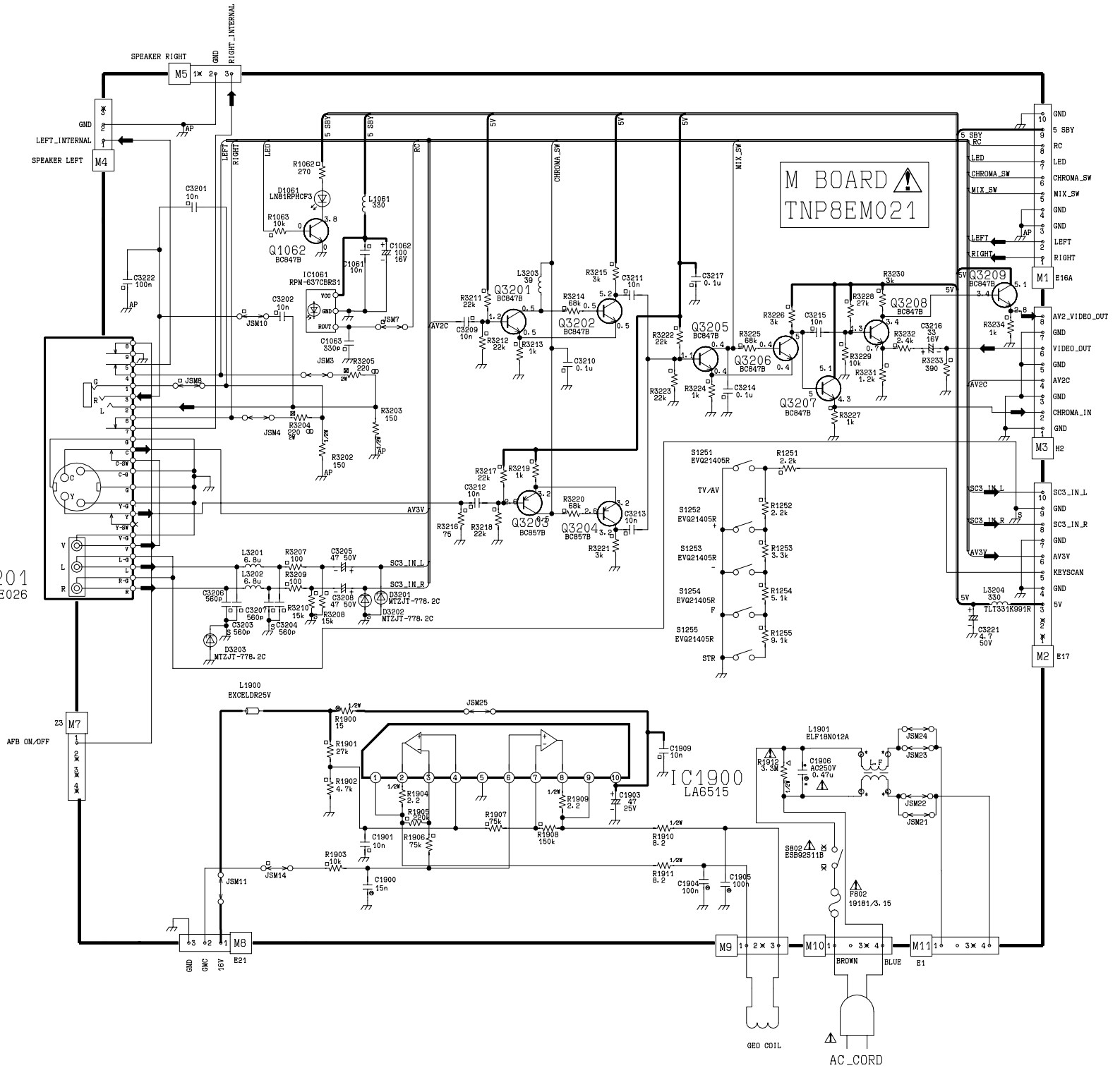
P BOARD
TNP8EP016

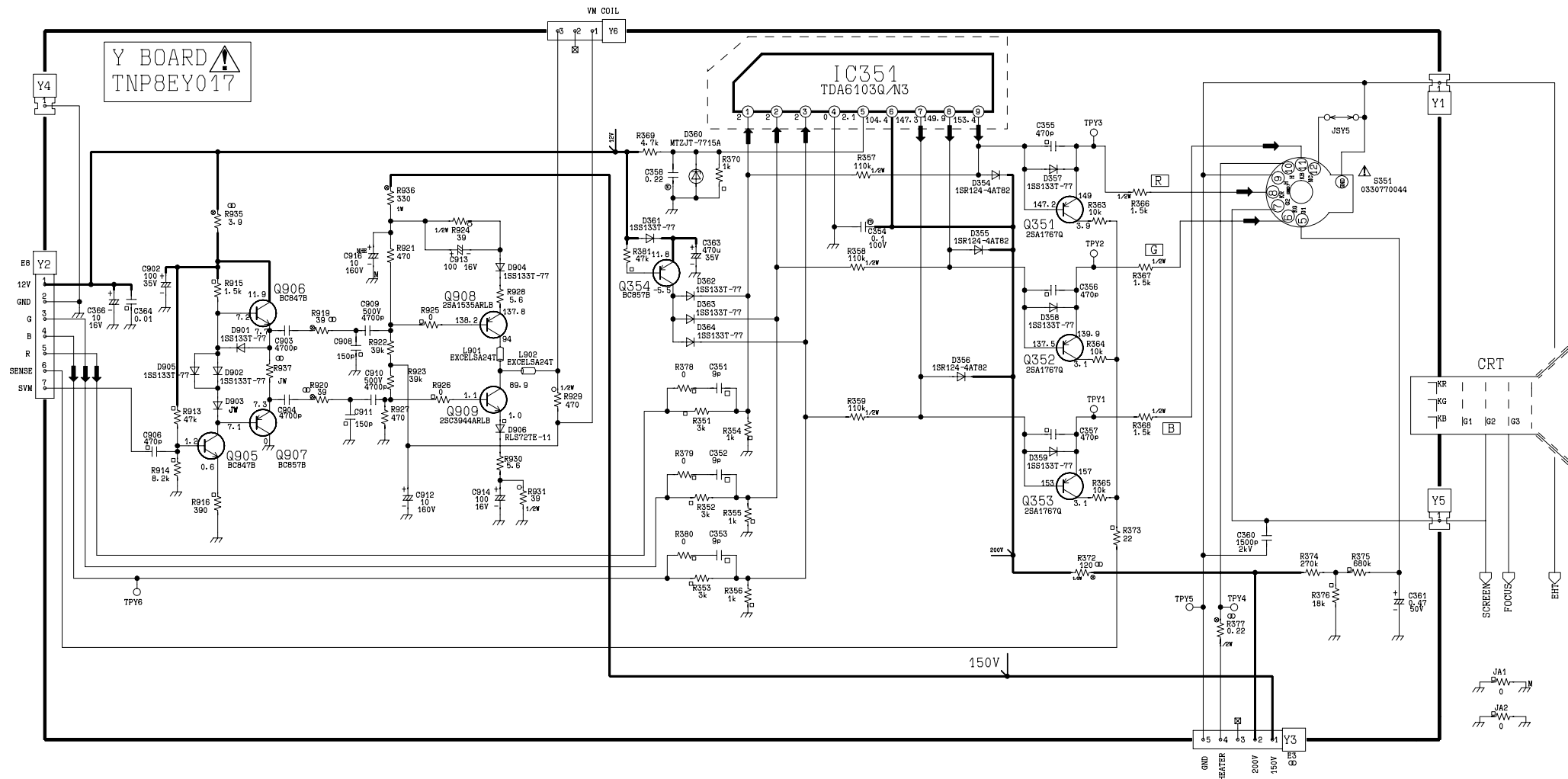






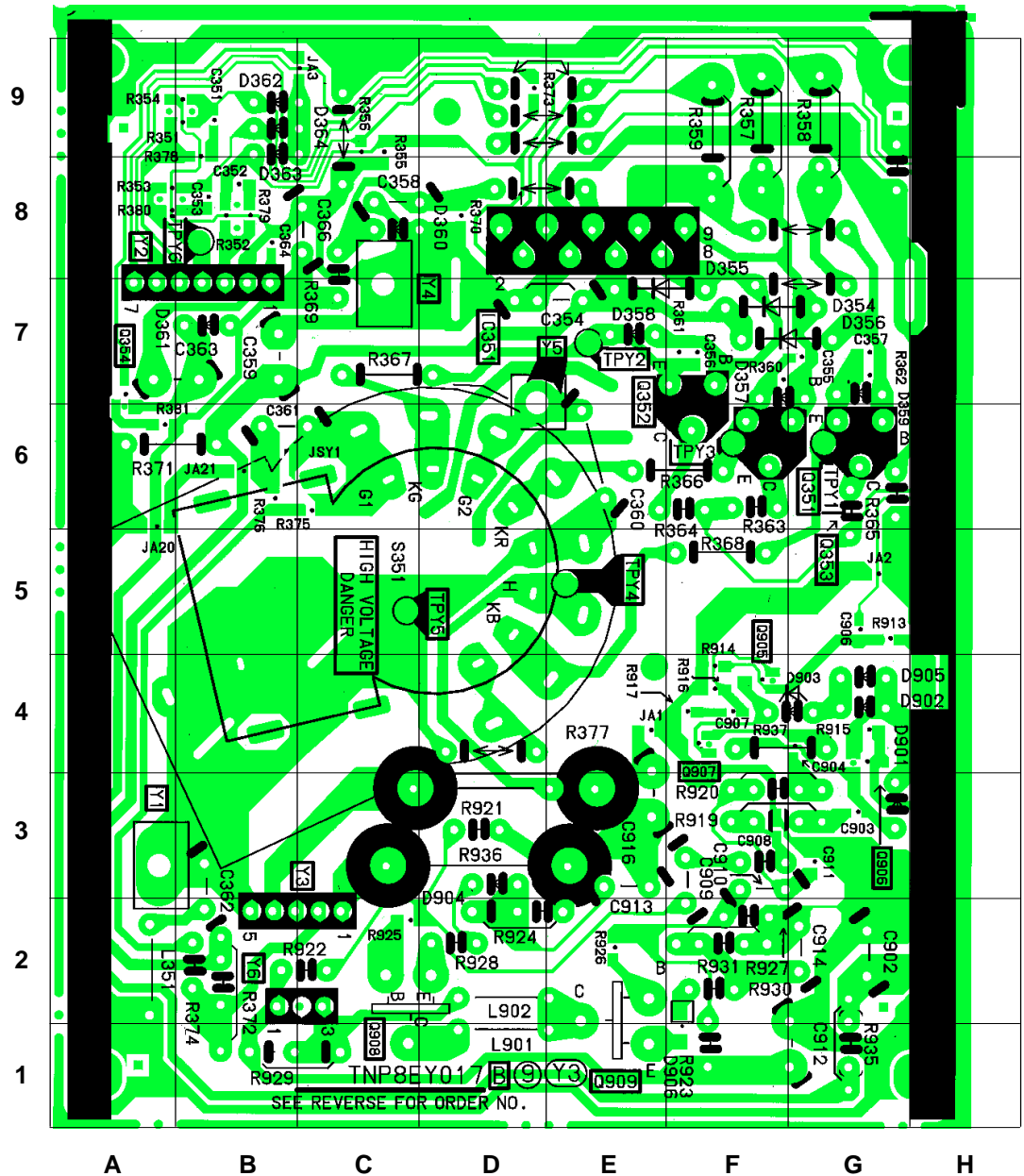
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Y - BOARD TNP8EY017

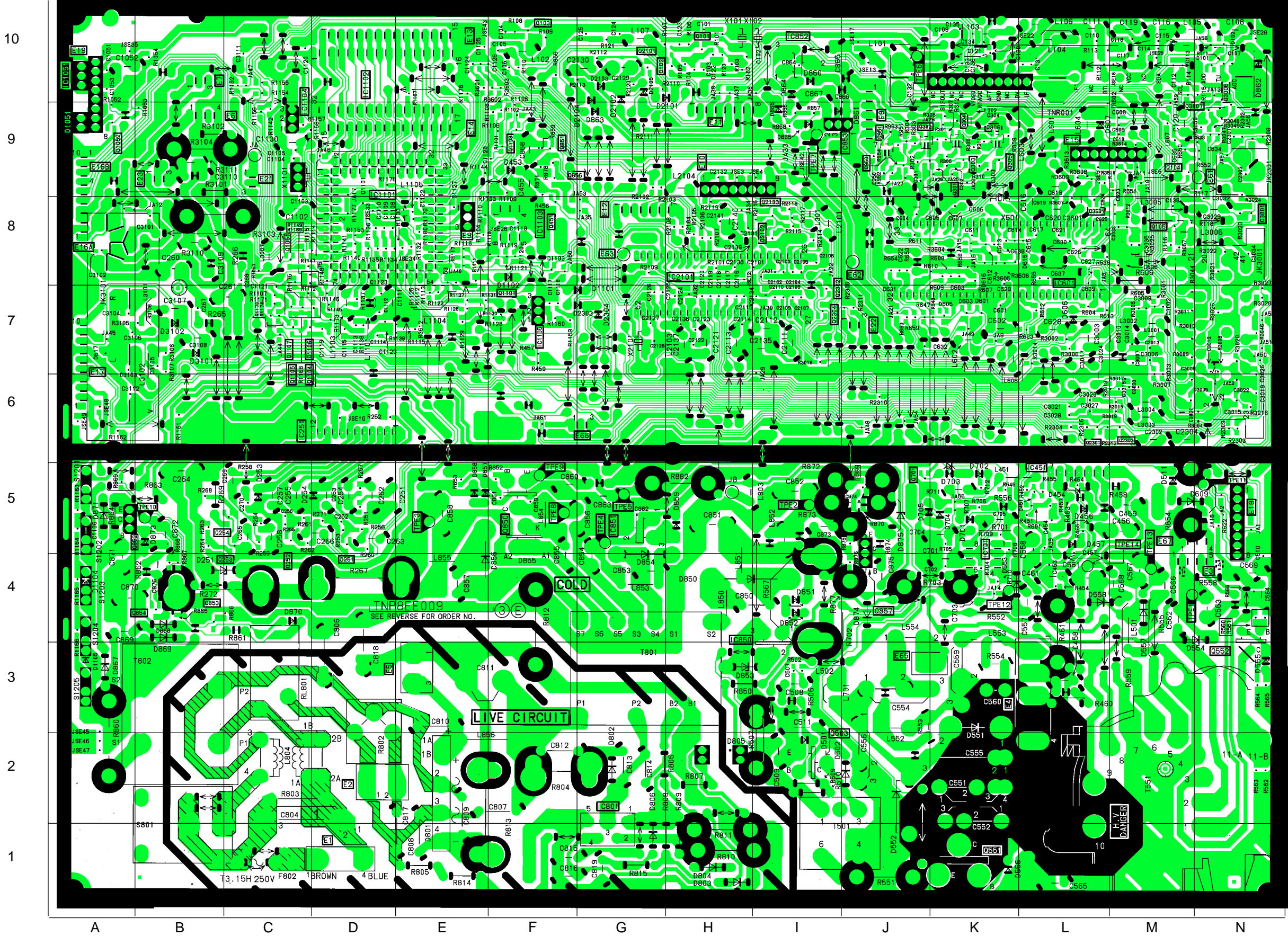
TRANSISTORS	
Q909	E1
Q908	C1
Q907	F4
Q906	G3
Q905	F5
Q354	A7
Q353	G6
Q352	F6
Q351	F6
DIODES	
D906	F1
D905	G4
D904	D3
D902	G4
D901	G4
D364	C9
D363	B8
D362	B9
D361	A7
D360	D8
D359	G6
D358	E7
D357	F7
D356	G7
D355	F8
D354	G7
TEST POINTS	
TPY6	B8
TPY5	D5
TPY4	E5
TPY3	F6
TPY2	E7
TPY1	G6
IC'S	
IC351	E8



CONDUCTOR VIEWS

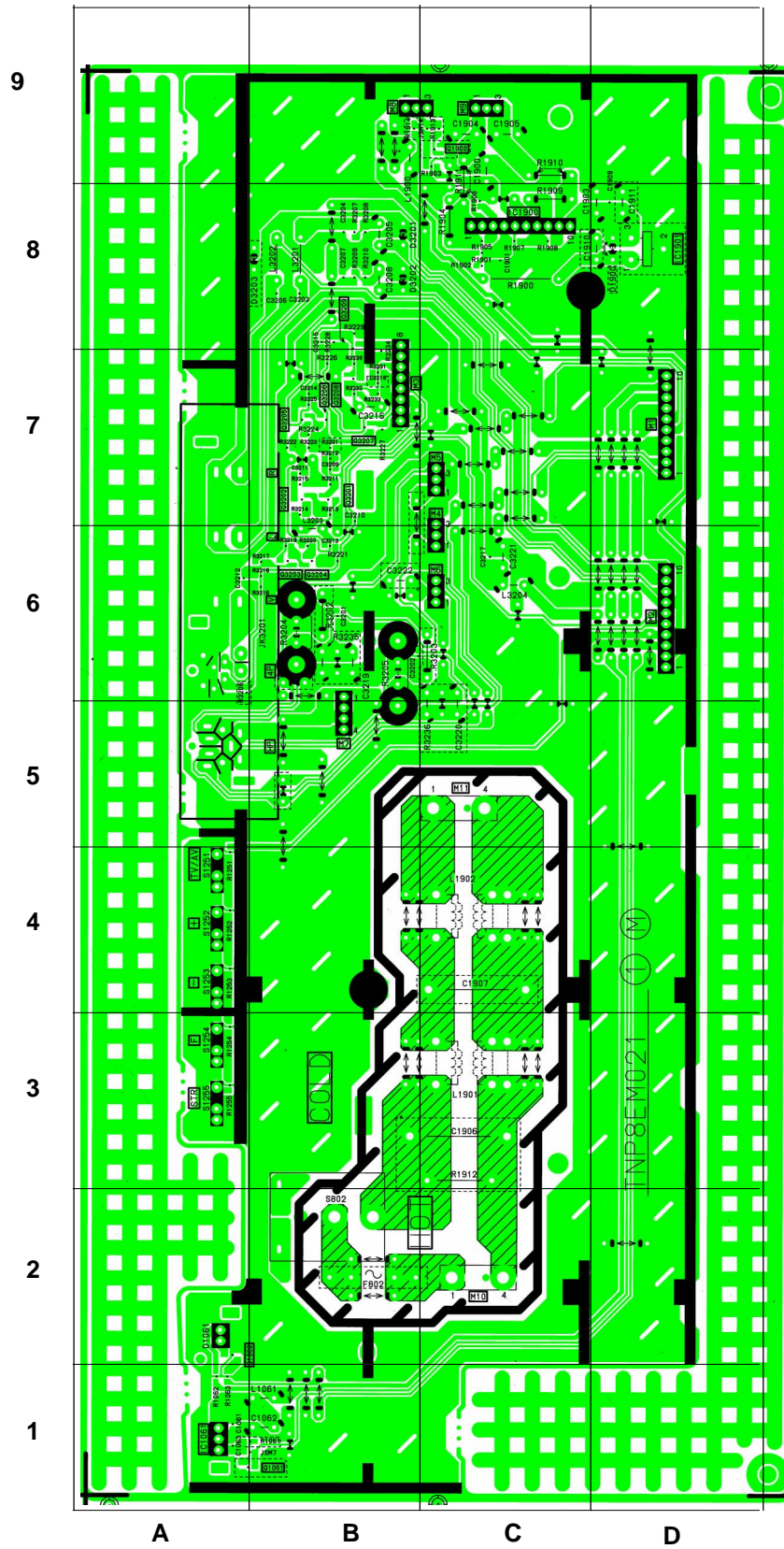
E-BOARD TNP8EE009

TRAN'S	DIODES	D558 L4
Q3601 L8	D3102 B7	D557 M3
Q3007 M9	D3101 B7	D556 K1
Q3006 N10	D2304 G7	D555 N3
Q3001 N8	D2303 G7	D554 N4
Q2304 I7	D2161 G9	D553 K4
Q2303 M6	D2105 G10	D552 J1
Q2302 I7	D2104 F9	D551 K3
Q2301 L6	D2103 G10	D511 M5
Q2103 I8	D2102 G9	D502 I2
Q2102 I8	D1103 F8	D501 I2
Q2101 G10	D1102 F7	D457 L5
Q1108 F9	D1101 G7	D456 L5
Q1107 C7	D1051 A9	D454 L5
Q1106 C7	D875 J5	D453 F9
Q1105 C7	D874 J4	D254 B5
Q1104 C7	D873 B5	D253 C4
Q1101 F7	D871 A5	D252 C4
Q1052 A9	D870 C4	D251 D4
Q1051 C8	D869 B4	
Q951 J9	D868 B4	IC'S
Q950 J9	D867 A3	IC2101 H8
Q857 J4	D866 I9	IC1105 F7
Q856 F9	D865 I9	IC1104 C9
Q855 J5	D864 I10	IC1103 F8
Q854 B4	D863 G9	IC1102 D10
Q853 B4	D862 N10	IC1101 D8
Q852 B5	D861 J9	IC1051 A10
Q850 F5	D860 I10	IC853 J9
Q701 J5	D859 H5	IC852 I10
Q552 N3	D858 E5	IC851 G5
Q551 K1	D857 E5	IC850 H4
Q503 I2	D856 F4	IC801 G2
Q451 F8	D855 F4	IC701 K5
Q305 K9	D854 G4	IC601 L7
Q304 K9	D853 H3	IC451 L5
Q303 K9	D852 I4	IC251 D6
Q302 J9	D851 I4	
Q301 K9	D850 H4	TP'S
Q253 C4	D806 G2	TPE14 M5
Q252 C4	D805 H2	TPE13 M4
Q251 D4	D804 H1	TPE12 K4
Q105 M8	D803 H1	TPE11 N5
Q104 M9	D802 G2	TPE10 B5
Q103 F10	D801 E1	TPE9 F5
Q102 G10	D705 J5	TPE8 F5
Q101 H10	D704 K5	TPE7 I9
	D703 K5	TPE6 J10
	D702 K5	TPE5 G5
	D701 K5	TPE4 G5
	D609 N5	TPE3 E5
	D607 L9	TPE2 I5
		TPE1 M4



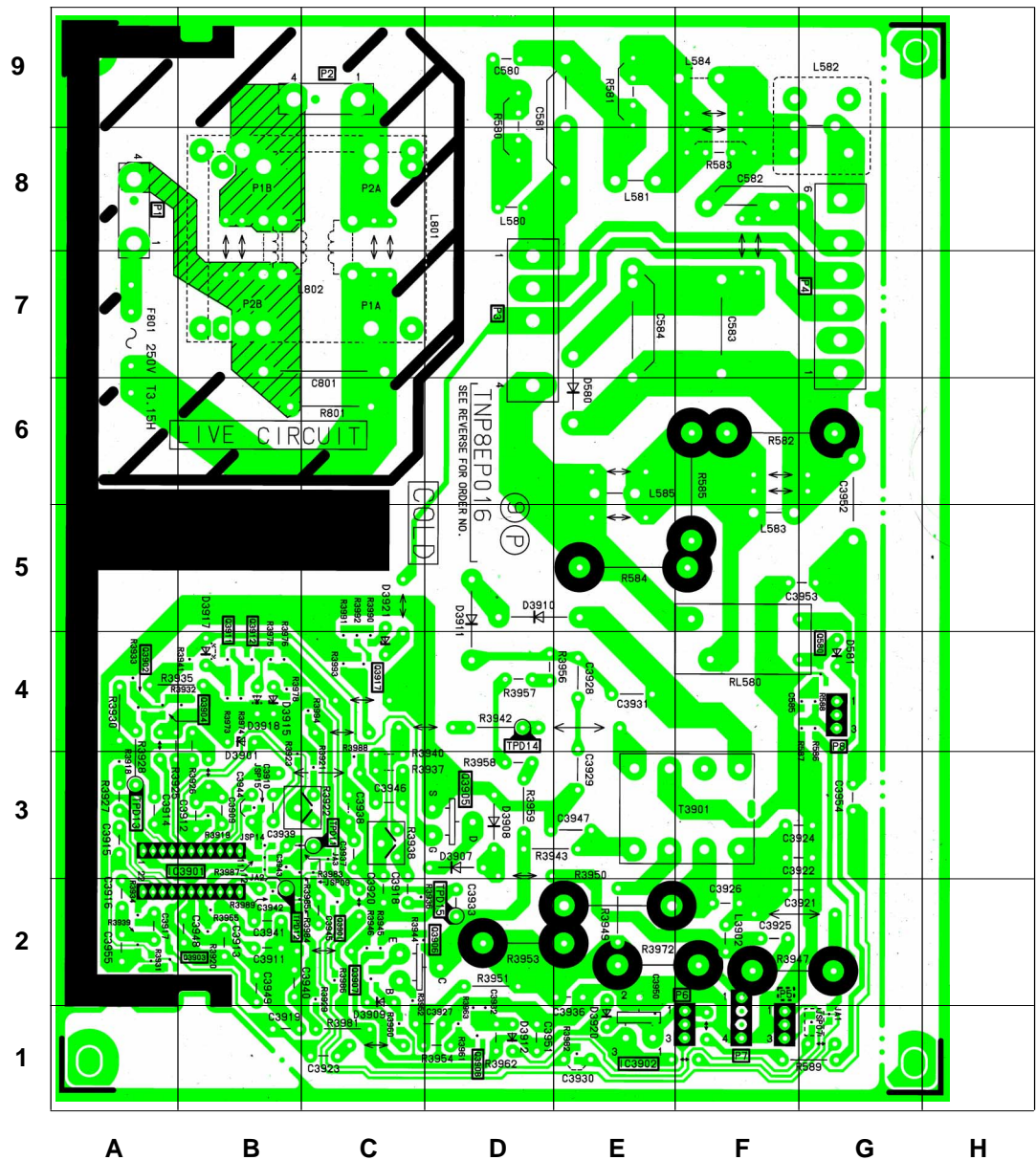
M - BOARD TNP8EM021

TRANSISTORS	
Q1061	B1
Q1062	B2
Q3201	B7
Q3202	B7
Q3203	B6
Q3204	B6
Q3205	B7
Q3206	B7
Q3207	B7
Q3208	B7
Q3209	B8
Q1900	C9
DIODES	
D1061	A2
D3201	B8
D3202	B8
D3203	B8
D1900	D8
IC'S	
IC1061	A1
IC1900	C8
IC1901	D8



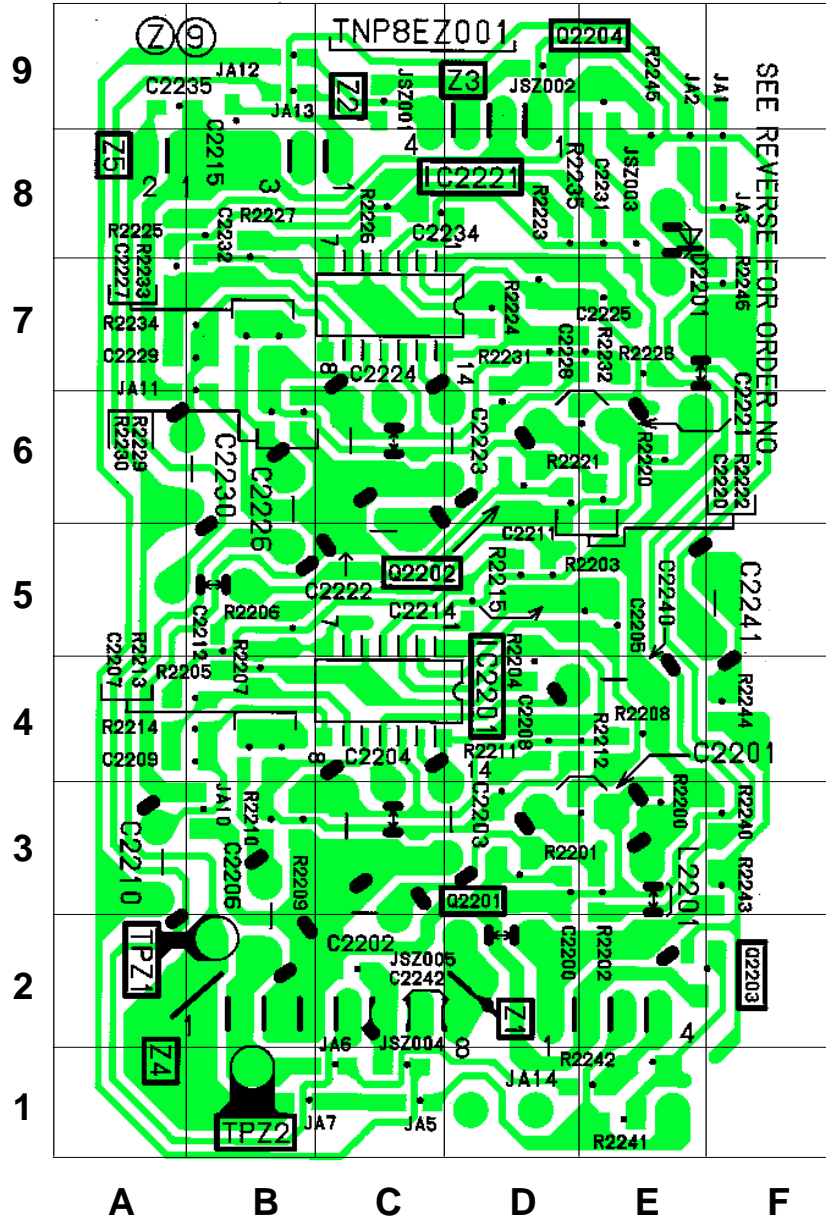
P - BOARD TNP8EP016

TRANSISTORS	
Q580	G4
Q3901	C2
Q3902	A4
Q3903	B2
Q3904	B4
Q3905	D3
Q3906	D2
Q3907	C2
Q3908	D1
Q3911	B4
Q3912	B4
Q3917	C4
DIODES	
D580	E6
D581	G4
D3901	B3
D3907	D3
D3908	D3
D3909	C1
D3910	D5
D3911	D5
D3912	D1
D3915	B4
D3917	B4
D3918	B4
D3920	E1
D3921	C4
TEST POINTS	
TPD11	C3
TPD12	B2
TPD13	A3
TPD14	D4
TPD15	D2
IC'S	
IC3901	B3
IC3902	E1



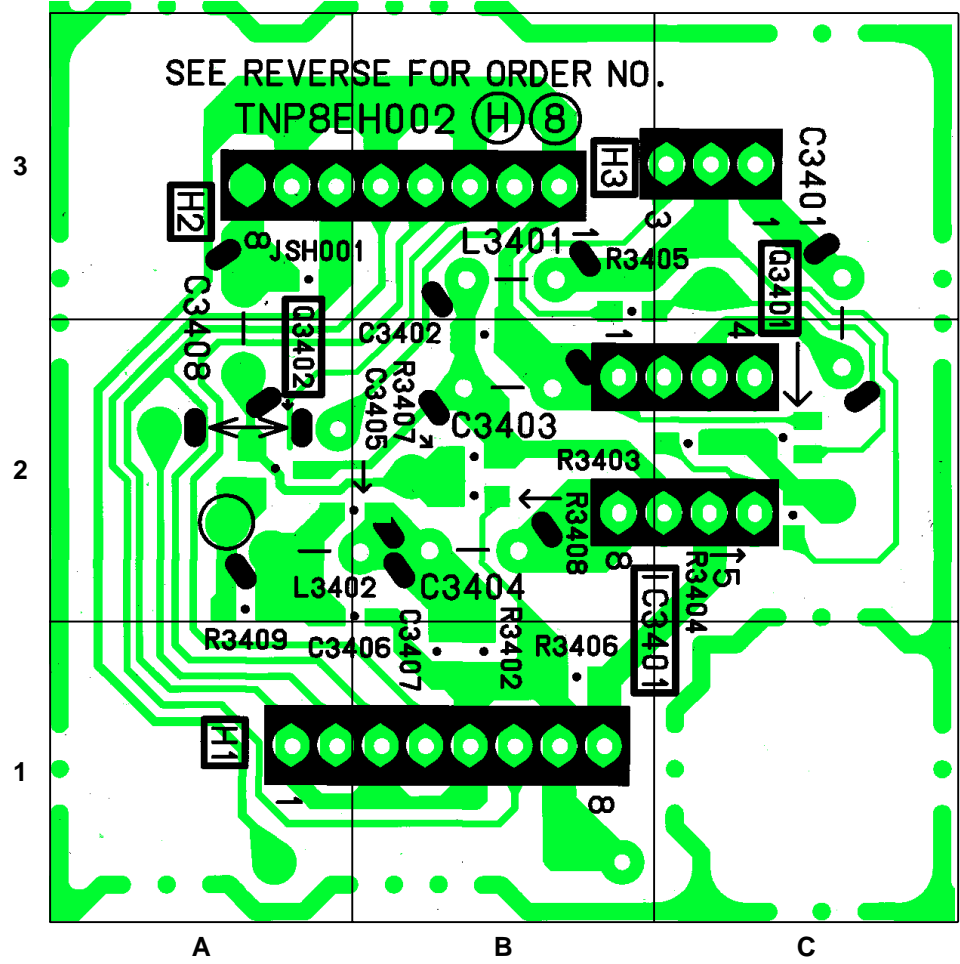
Z - BOARD TNP8EZ001

TRAN'S	
Q2201	D3
Q2202	C5
Q2203	F2
Q2204	E9
DIODES	
D2201	E8
TP'S	
TPZ1	B2
TPZ2	B1
IC'S	
IC2201	C4
IC2221	C7



H - BOARD TNP8EH002

TRANSISTORS	
Q3401	C3
Q3402	A2
I.C.'S	
IC3401	C2



2	13	24
3	14	25
4	15	26
5	16	27
6	17	28
7	18	29
8	19	30
9	20	31
10	21	32
11	22	
12	23	